

List of All Chemicals

P Thymus funkii (Lamiaceae)

Common name(s)

Funk's Thyme

How used

Medicinal

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

| Chemical | Part All ▾ | Low PPM | High PPM | StdDev | *Reference |
|-------------|---------------|------------|-------------|--------|--|
| 1,8-CINEOLE | Shoot | -- | 2200.0 | -0.1 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |

Activities (67)

| | |
|---|--|
| (-)-Chronotropic 87 nl/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| (-)-Inotropic 87 nl/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| Acaricide LC100=6 uM | |
| Allelopathic | |
| Allergenic | |
| Anesthetic | |
| Anthelmintic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antiacetylcholinesterase IC50=41 ug/ml | |
| Antiallergic | J. Food Hyg. Soc. Jap. 33(6): 569. |
| Antibacterial 50 ppm | |
| Antibronchitic | |
| Anticariogenic | |
| Anticatarrh | Martindale's 29th |
| Anticholinesterase IC50=50-70 | |
| Antifatigue | |
| Antihalitosis | American Health, 12(4): 17, 1993. |
| Antiinflammatory | |
| Antilaryngitic | |
| Antinociceptive | |
| Antipharyngitic | |
| Antiplaque | |
| Antirheumatic | |
| Antirhinitic | |
| Antiseptic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antisinusitic | |
| Antispasmodic | |
| Antistaphylococcic 50 ppm | |
| Antitussive | |
| Antiulcer | |
| CNS-Stimulant | |
| Candidicide | |
| Carcinogenic | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Choleretic | |
| Convulsant | |
| Counterirritant | Martindale's 29th |
| Cytochrome-P450-Inducer | |
| Decongestant | |
| Degranulant 0.3 ul/ml | |
| Dentifrice | Martindale's 29th |

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|----------------------------------|--|
| Edemagenic inj | |
| Expectorant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| FLavor FEMA 1-200 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Fungicide | |
| Gastroprotective | |
| Gram(+)-icide | |
| Gram(-)-icide | |
| Hepatotonic | |
| Herbicide IC50=78 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Hypotensive | |
| Inflammatory inj | |
| Insectifuge | |
| Irritant | Rinzler, C. A. 1990. The Complete Book of Herbs, Spices and Condiments. Facts on File, New York. 199 pp. |
| Myorelaxant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Nematicide | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Neurotoxic | |
| P450-Inducer | |
| Pediculicide 2.3 x pyrethrin | |
| Perfume | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Pesticide | |
| Rubefacient | Martindale's 29th |
| Secretagogue | |
| Sedative | |
| Spasmogenic | |
| Surfactant | |
| Testosterone-Hydroxylase-Inducer | |
| Transdermal | |
| Trichomonicide LD100=1,000 ug/ml | |

1,8-CINEOLE Shoot -- 1960.0 -0.11 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

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| (-)-Inotropic 87 nI/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
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| Anticariogenic | |
| Anticatarrh | Martindale's 29th |
| Anticholinesterase IC50=50-70 | |
| Antifatigue | |
| Antihalitosis | American Health, 12(4): 17, 1993. |
| Antiinflammatory | |
| Antilaryngitic | |
| Antinociceptive | |
| Antipharyngitic | |
| Antiplateau | |
| Antirheumatic | |
| Antirhinitic | |
| Antiseptic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antisinusitic | |
| Antispasmodic | |
| Antistaphylococcic 50 ppm | |

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| Antitussive | |
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| Candidicide | |
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| Cytochrome-P450-Inducer | |
| Decongestant | |
| Degranulant 0.3 ul/ml | |
| Dentifrice | Martindale's 29th |
| Edemagenic inj | |
| Expectorant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| FLavor FEMA 1-200 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | |
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| Gram(+)-icide | |
| Gram(-)-icide | |
| Hepatotoxic | |
| Herbicide IC50=78 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
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| Inflammatory inj | |
| Insectifuge | |
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| Myorelaxant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Nematicide | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
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| P450-Inducer | |
| Pediculicide 2.3 x pyrethrin | |
| Perfume | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Pesticide | |
| Rubefacient | Martindale's 29th |
| Secretagogue | |
| Sedative | |
| Spasmogenic | |
| Surfactant | |
| Testosterone-Hydroxylase-Inducer | |
| Transdermal | |
| Trichomonicide LD100=1,000 ug/ml | |

| | | | | | |
|----------------------|-------|----|------|-------|--|
| 10-EPI-CADINOL | Shoot | -- | 8.0 | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| 10-EPI-CADINOL | Shoot | -- | 8.0 | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| 10-EPI-GAMMA-EUDESOL | Shoot | -- | 14.0 | -0.64 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| 10-EPI-GAMMA-EUDESOL | Shoot | -- | 8.0 | -0.77 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| 3-OCTANOL | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |

Activities (2)

| | |
|-------------|---|
| FLavor FEMA | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |

| | | | | | |
|-----------|-------|----|-----|-------|--|
| 3-OCTANOL | Shoot | -- | 5.0 | -0.29 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|-----------|-------|----|-----|-------|--|

| Activities (2) | | | | | |
|---------------------|--|----|------|-------|--|
| FLAVOR FEMA | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry | | | | |
| 7-EPI-ALPHA-EUDESOL | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| 7-EPI-ALPHA-EUDESOL | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| ALLO-AROMADENDRENE | Shoot | -- | 32.0 | -0.15 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| ALLO-AROMADENDRENE | Shoot | -- | 32.0 | -0.15 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| ALPHA-CADINOL | Shoot | -- | 32.0 | 0.05 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |

| Activities (3) | | | | | |
|----------------|-------|----|------|------|--|
| Acaricide | | | | | |
| Antimite | | | | | |
| Pesticide | | | | | |
| ALPHA-CADINOL | Shoot | -- | 32.0 | 0.05 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |

| Activities (3) | | | | | |
|----------------|-------|----|------|-------|--|
| Acaricide | | | | | |
| Antimite | | | | | |
| Pesticide | | | | | |
| ALPHA-ELEMOL | Shoot | -- | -- | -0.89 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| ALPHA-ELEMOL | Shoot | -- | -- | -0.89 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| ALPHA-EUDESOL | Shoot | -- | -- | -1.14 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| ALPHA-EUDESOL | Shoot | -- | -- | -1.14 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| ALPHA-HUMULENE | Shoot | -- | 16.0 | -0.27 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |

| Activities (2) | | | | | |
|----------------|---|----|------|-------|--|
| Antitumor | Zheng, G-Q., Kenney, P.M., and Lam, L.K.T. Sesquiterpenes From Clove (<i>Eugenia caryophyllata</i>) As Potential Anticarcinogenic Agents. <i>Journal of Natural Products</i> 55(7): 999-1003, 1992. | | | | |
| Perfumery | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp. | | | | |
| ALPHA-HUMULENE | Shoot | -- | 16.0 | -0.27 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |

| Activities (2) | | | | | |
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| Perfumery | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp. | | | | |
| ALPHA-PINENE | Shoot | -- | 425.0 | -0.11 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |

Activities (28)

| | |
|-------------------------------------|--|
| Allelochemic | |
| Allergenic | |
| Antiacne | |
| Antibacterial | |
| Antifeedant | |
| Antiflu | Economic & Medicinal Plant Research, 5: 195. |
| Antiinflammatory 500 mg/kg | |
| Antipneumonic | |
| Antiseptic | |
| Antispasmodic | |
| Antistaphylococcic | |
| Antiviral | Economic & Medicinal Plant Research, 5: 195. |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Coleoptophile | |
| Expectorant | Michael Castleman 1991. The Healing Herbs. Rodale Press, Emmaus, PA 436 pp. |
| FLavor FEMA 15-150 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Herbicide IC50=30 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Insecticide 0.82 uM/fly | |
| Insectifuge 50 ppm | |
| Insectiphile | J. Stored. Prod. Res., 22:141, 1986. |
| Irritant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| P450-2B1-Inhibitor IC50=0.087 uM | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Pesticide | |
| Sedative | Lawrence Review of Natural Products, Jun-90. |
| Spasmogenic | |
| Tranquilizer | Lawrence Review of Natural Products, Jun-90. |
| Transdermal | |

ALPHA-PINENE Shoot -- 425.0 -0.11 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

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| Allelochemic | |
| Allergenic | |
| Antiacne | |
| Antibacterial | |
| Antifeedant | |
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| Antiinflammatory 500 mg/kg | |
| Antipneumonic | |
| Antiseptic | |
| Antispasmodic | |
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| Tranquilizer | Lawrence Review of Natural Products, Jun-90. |
| Transdermal | |

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| ALPHA-TERPENYL-ACETATE | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| ALPHA-TERPENYL-ACETATE | Shoot | -- | 5.0 | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| ALPHA-TERPINEOL | Shoot | -- | 175.0 | -0.11 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |

Activities (23)

| | | | | | |
|---|--|--|--|--|---|
| ACE-Inhibitor 100 ug/ml (weak activity) | | | | | |
| Aldose-Reductase-Inhibitor 100 ug/ml | | | | | Okamura, K., Iwakami, S., Matsunaga, T. 1992. Biological Activity of Monoterpenes from Trees. <i>Toyama-Ken Yakuji Kenkyusho Nenpo</i> , (20): 95-101. |
| Allelopathic | | | | | Wright, C.W. (Ed) 2002. <i>Medicinal & Aromatic Plants-Industrial Profiles</i> . Artemisia. 344pp. Maffei, M. (Ed) 2002. <i>Vetiveria. The Genus Vetiveria</i> . Taylor & Francis. NY, NY. 191pp. Southwell, I., Lowe, R. (Eds) 1999. <i>Tea Tree. The Genus Melaleuca</i> . Harwood Acad. Pub. Amsterdam, Netherlands. |
| Antiacne | | | | | |
| Antibacterial MIC=800-1,600 ug/ml | | | | | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against <i>Streptococcus mutans</i> . <i>J. Agric. Food Chem.</i> 41: 1102-1105. |
| Anticancer | | | | | Joseph, J., Nadeau, D. and Underwood, A. 2001. <i>The Color Code</i> . Hyperion, NY. |
| Anticariogenic MIC=800-1,600 ug/ml | | | | | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against <i>Streptococcus mutans</i> . <i>J. Agric. Food Chem.</i> 41: 1102-1105. |
| Antiinflammatory | | | | | |
| Antiproliferant | | | | | |
| Antiseptic | | | | | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Cicatrizant ED50=240 ug/g mus | | | | | |
| FLavor FEMA 5-40 | | | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Insecticide 1.29 uM/fly | | | | | |
| Interleukin-6-Inhibitor | | | | | |
| Mosquitofuge > Deet | | | | | |
| Motor-Depressant | | | | | Buchbauer et al, e.g. Buchbauer et al, 1993. Therapeutic properties of essential oils and fragrances. Chap.12 in Teranishi, R., Buttery, R.G and Sugisawa, H. Eds. <i>Bioactive Volatile Compounds from Plants</i> . ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Nematicide MLC=1 mg/ml | | | | | Shoyakugaku Zasshi, 44: 183. |
| Perfumery | | | | | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Pesticide | | | | | |
| Sedative | | | | | Buchbauer et al, e.g. Buchbauer et al, 1993. Therapeutic properties of essential oils and fragrances. Chap.12 in Teranishi, R., Buttery, R.G and Sugisawa, H. Eds. <i>Bioactive Volatile Compounds from Plants</i> . ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Termiticide IC100=5 mg/g | | | | | |
| Transdermal | | | | | |
| Vulnerary ED50=240 ug/g mus | | | | | |

| | | | | | |
|-----------------|-------|----|-------|-------|--|
| ALPHA-TERPINEOL | Shoot | -- | 175.0 | -0.11 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
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Activities (23)

| | |
|---|---|
| ACE-Inhibitor 100 ug/ml (weak activity) | |
| Aldehyde-Reductase-Inhibitor 100 ug/ml | Okamura, K., Iwakami, S., Matsunaga, T. 1992. Biological Activity of Monoterpenes from Trees. Toyama-Ken Yakuji Kenkyusho Nenpo, (20): 95-101. |
| Allelopathic | Wright, C.W. (Ed) 2002. Medicinal & Aromatic Plants - Industrial Profiles. Artemisia. 344pp. Maffei, M. (Ed) 2002. Vetiveria. The Genus Vetiveria. Taylor & Francis. NY, NY. 191pp. Southwell, I., Lowe, R. (Eds) 1999. Tea Tree. The Genus Melaleuca. Harwood Acad. Pub. Amsterdam, Netherlands. |
| Antiacne | |
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| Anticancer | Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY. |
| Anticariogenic MIC=800-1,600 ug/ml | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. J. Agric. Food Chem. 41: 1102-1105. |
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| Antiproliferant | |
| Antiseptic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Cicatrizant ED50=240 ug/g mus | |
| FLavor FEMA 5-40 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Insecticide 1.29 uM/fly | |
| Interleukin-6-Inhibitor | |
| Mosquitofuge > Deet | |
| Motor-Depressant | Buchbauer et al, e.g. Buchbauer et al, 1993. Therapeutic properties of essential oils and fragrances. Chap. 12 in Teranishi, R., Buttery, R.G. and Sugisawa, H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Perfumery | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Pesticide | |
| Sedative | Buchbauer et al, e.g. Buchbauer et al, 1993. Therapeutic properties of essential oils and fragrances. Chap. 12 in Teranishi, R., Buttery, R.G. and Sugisawa, H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Termiticide IC100=5 mg/g | |
| Transdermal | |
| Vulnerary ED50=240 ug/g mus | |

| | | | | | |
|-----------------|-------|----|------|------|--|
| ALPHA-THUJENE | Shoot | -- | 65.0 | 0.62 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| ALPHA-THUJENE | Shoot | -- | 65.0 | 0.62 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| BETA-BISABOLENE | Shoot | -- | -- | -- | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |

Activities (6)

| | |
|----------------------------|--|
| Abortifacient | |
| Antirhinoviral IC50=1,800? | Denyer, C.V., Jackson, P., Loakes, D.M., Ellis, M.R., and Yound, D.A.B. Isolation of Antirhinoviral Sesquiterpenes From Ginger (Zingiber officinale). Journal of Natural Products, 57(5): 658-662, 1994. |
| Antiulcer IC57=100 mg/kg | Yamahara, J., et al. Stomachic principles in ginger. II. Pungent and anti-ulcer effects of low polar constituents isolated from ginger, the dried rhizoma of... Yakugaku Zasshi 112: 645-655 (1992). |
| Antiviral IC50=1,800? | Denyer, C.V., Jackson, P., Loakes, D.M., Ellis, M.R., and Yound, D.A.B. Isolation of Antirhinoviral Sesquiterpenes From Ginger (Zingiber officinale). Journal of Natural Products, 57(5): 658-662, 1994. |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Stomachic | |

| | | | | | |
|-----------------|-------|----|----|-------|--|
| BETA-BISABOLENE | Shoot | -- | -- | -0.58 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|-----------------|-------|----|----|-------|--|

Activities (6)

| | |
|----------------------------|--|
| Abortifacient | |
| Antirhinoviral IC50=1,800? | Denyer, C.V., Jackson, P., Loakes, D.M., Ellis, M.R., and Yound, D.A.B. Isolation of Antirhinoviral Sesquiterpenes From Ginger (Zingiber officinale). Journal of Natural Products, 57(5): 658-662, 1994. |
| Antiulcer IC57=100 mg/kg | Yamahara, J., et al. Stomachic principles in ginger. II. Pungent and anti-ulcer effects of low polar constituents isolated from ginger, the dried rhizoma of... Yakugaku Zasshi 112: 645-655 (1992). |
| Antiviral IC50=1,800? | Denyer, C.V., Jackson, P., Loakes, D.M., Ellis, M.R., and Yound, D.A.B. Isolation of Antirhinoviral Sesquiterpenes From Ginger (Zingiber officinale). Journal of Natural Products, 57(5): 658-662, 1994. |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Stomachic | |

| | | | | | |
|--------------------|-------|----|-------|-------|--|
| BETA-BOURBONENE | Shoot | -- | 8.0 | -0.37 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| BETA-BOURBONENE | Shoot | -- | 8.0 | -0.37 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| BETA-CARYOPHYLLENE | Shoot | -- | 210.0 | 0.02 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| BETA-CARYOPHYLLENE | Shoot | -- | 210.0 | 0.02 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| BETA-CURCUMENE | Shoot | -- | 8.0 | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| BETA-CURCUMENE | Shoot | -- | 8.0 | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| BETA-ELEMENE | Shoot | -- | -- | -0.34 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |

Activities (5)

| | |
|---------------------|--|
| Anticancer (Cervix) | Medicinal and Poisonous Plants of the Tropics. Leeuwenberg, A.J.M., ed. Pudoc, Wageningen. 1987. |
| Antigliomic | |
| Antiproliferant | |
| Antitumor (Cervix) | |
| Apoptotic | |

| | | | | | |
|--------------|-------|----|----|-------|--|
| BETA-ELEMENE | Shoot | -- | -- | -0.34 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|--------------|-------|----|----|-------|--|

Activities (5)

| | |
|---------------------|--|
| Anticancer (Cervix) | Medicinal and Poisonous Plants of the Tropics. Leeuwenberg, A.J.M., ed. Pudoc, Wageningen. 1987. |
| Antigliomic | |
| Antiproliferant | |
| Antitumor (Cervix) | |
| Apoptotic | |

| | | | | | |
|-------------|-------|----|------|-----|--|
| BETA-ELEMOL | Shoot | -- | 35.0 | 1.0 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|-------------|-------|----|------|-----|--|

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|-------------|-------|----|------|------|--|
| BETA-ELEMOL | Shoot | -- | 16.0 | -1.0 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|-------------|-------|----|------|------|--|

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|--------------|-------|----|----|-------|--|
| BETA-EUDESOL | Shoot | -- | -- | -1.15 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|--------------|-------|----|----|-------|--|

Activities (13)

| | |
|-------------------------------|---|
| AntiEBV | Yamahara, J., Matsuda, H., Naitoh, Y., Fujimura, H., and Tamai, Y. 1990. Antianoxic Action and Active Constituents of <i>Atractylodes lancea</i> Rhizoma. <i>Chem. Pharm. Bull.</i> 38(7): 2033-2034, 1990. |
| Antianoxic ED60=300 orl mus | |
| Antimutagenic ID50=0.09 uM/ml | |
| Antipeptic | |
| Antisalmonella >0.18 uM/ml | |
| Antitumor-Promoter? | |
| Antiulcer | |
| CNS-Inhibitor | |
| Calcium-Antagonist 40 uM mus | |
| Hepatoprotective | |
| Neurogenic | |
| Pesticide | |
| Sedative | |

| | | | | | |
|--------------|-------|----|----|-------|--|
| BETA-EUDESOL | Shoot | -- | -- | -1.15 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|--------------|-------|----|----|-------|--|

Activities (13)

AntiEBV

Antianoxic ED60=300 orl mus Yamahara, J., Matsuda, H., Naitoh, Y., Fujimura, H., and Tamai, Y. 1990. Antianoxic Action and Active Constituents of *Atractylodis Lanceae* Rhizoma. *Chem. Pharm. Bull.* 38(7): 2033-2034, 1990.

Antimutagenic ID50=0.09 uM/ml

Antipeptic Chem & Pharm. Bull., 34: 3854, 1986.

Antisalmonella >0.18 uM/ml

Antitumor-Promoter?

Antiulcer

CNS-Inhibitor

Calcium-Antagonist 40 uM mus

Hepatoprotective

Neurogenic

Pesticide

Sedative

BETA-GURJUNENE Shoot -- -- -0.98 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

BETA-GURJUNENE Shoot -- -- -0.98 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

BETA-PINENE Shoot -- 490.0 -0.09 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

Activities (13)

Allergenic

Antiinflammatory

Antiseptic Leung, A. Y. and Foster, S. 1995. *Encyclopedia of Common Natural Ingredients* 2nd Ed. John Wiley & Sons, New York. 649 pp.

Antispasmodic

Candidicide

FLavor FEMA 15-600 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Herbicide Keeler, R.F. and Tu, A.T. eds. 1991. *Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6)* Marcel Dekker, Inc. NY. 665 pp.

Insectifuge Jacobson, M., *Glossary of Plant-Derived Insect Deterrents*, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.

Irritant Zebovitz, T. C. Ed. 1989. Part VII. *Flavor and Fragrance Substances*, in Keith L. H. and Walters, D.B., eds. *Compendium of Safety Data Sheets for Research and Industrial Chemicals*. VCH Publishers, New York. 3560-4253.

Perfumery Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Pesticide

Spasmogenic Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. *Herbal Medicine - A Guide for Health-care Professionals*. The Pharmaceutical Press, London. 296pp.

Transdermal

BETA-PINENE Shoot -- 490.0 -0.09 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

Activities (13)

Allergenic

Antiinflammatory

Antiseptic Leung, A. Y. and Foster, S. 1995. *Encyclopedia of Common Natural Ingredients* 2nd Ed. John Wiley & Sons, New York. 649 pp.

Antispasmodic

Candidicide

FLavor FEMA 15-600 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Herbicide Keeler, R.F. and Tu, A.T. eds. 1991. *Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6)* Marcel Dekker, Inc. NY. 665 pp.

Insectifuge Jacobson, M., *Glossary of Plant-Derived Insect Deterrents*, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.

Irritant Zebovitz, T. C. Ed. 1989. Part VII. *Flavor and Fragrance Substances*, in Keith L. H. and Walters, D.B., eds. *Compendium of Safety Data Sheets for Research and Industrial Chemicals*. VCH Publishers, New York. 3560-4253.

Perfumery Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Pesticide

Spasmogenic Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. *Herbal Medicine - A Guide for Health-care Professionals*. The Pharmaceutical Press, London. 296pp.

Transdermal

BETA-TERPENYL-ACETATE Shoot -- -- Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

BETA-TERPENYL-ACETATE Shoot -- -- Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

| | | | | | |
|-------------------|-------|----|-------|-------|--|
| BICYCLOGERMACRENE | Shoot | -- | 170.0 | -0.14 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| BICYCLOGERMACRENE | Shoot | -- | 170.0 | -0.14 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| BORNEOL | Shoot | -- | 550.0 | 0.13 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |

Activities (35)

| | |
|-------------------------------------|--|
| (-)-Chronotropic 29 ug/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. <i>Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D)</i> , 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| (-)-Inotropic 29 ug/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. <i>Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D)</i> , 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| Allelochemic | |
| Analgesic | |
| Antiacetylcholine | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp. |
| Antibacterial MIC=125-250 ug/ml | |
| Antibronchitic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Antiescherichic MIC=125 ug/ml | |
| Antifeedant | |
| Antiinflammatory | |
| Antiotitic | |
| Antipyretic | |
| Antisalmonella MIC=125 ug/ml | |
| Antispasmodic ED50=0.008 mg/ml | |
| Antistaphylococcic MIC=250 ug/ml | |
| Antiyeast MIC=250 ug/ml | |
| CNS-Stimulant | List, P.H. and Horhammer, L., <i>Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6</i> , Springer-Verlag, Berlin, 1969-1979. |
| CNS-Toxic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Candidicide MIC=250 ug/ml | |
| Choleretic | |
| FLavor FEMA<1 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Fungicide | |
| Hepatoprotective | |
| Herbicide IC50=470 mM | Lydon, J. & Duke, S., <i>The potential of pesticides from plants</i> , pp. 1-41 in Craker, L. & Simon, J., eds, <i>Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology</i> , v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Herbicide IC50=470 uM | Keeler, R.F. and Tu, A.T. eds. 1991. <i>Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6)</i> Marcel Dekker, Inc. NY. 665 pp. |
| Inhalant | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Insect-Repellent | |
| Insectifuge | Jacobson, M., <i>Glossary of Plant-Derived Insect Deterrents</i> , CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Irritant | Rinzler, C. A. 1990. <i>The Complete Book of Herbs, Spices and Condiments</i> . Facts on File, New York. 199 pp. |
| Myorelaxant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp. |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Perfumery | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Pesticide | |
| Sedative | Medline (post 1990 searches filed in my computer) |
| Tranquilizer | |

| | | | | | |
|---------|-------|----|-------|------|--|
| BORNEOL | Shoot | -- | 550.0 | 0.13 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|---------|-------|----|-------|------|--|

Activities (35)

| | |
|-------------------------------------|--|
| (-)-Chronotropic 29 ug/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| (-)-Inotropic 29 ug/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| Allelochemic | |
| Analgesic | |
| Antiacetylcholine | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Antibacterial MIC=125-250 ug/ml | |
| Antibronchitic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antiescherichic MIC=125 ug/ml | |
| Antifeedant | |
| Antiinflammatory | |
| Antiotitic | |
| Antipyretic | |
| Antisalmonella MIC=125 ug/ml | |
| Antispasmodic ED50=0.008 mg/ml | |
| Antistaphylococcic MIC=250 ug/ml | |
| Antiyeast MIC=250 ug/ml | |
| CNS-Stimulant | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| CNS-Toxic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Candidicide MIC=250 ug/ml | |
| Choleretic | |
| FLavor FEMA<1 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Fungicide | |
| Hepatoprotective | |
| Herbicide IC50=470 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Herbicide IC50=470 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Inhalant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Insect-Repellent | |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Irritant | Rinzler, C. A. 1990. The Complete Book of Herbs, Spices and Condiments. Facts on File, New York. 199 pp. |
| Myorelaxant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Perfumery | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Pesticide | |
| Sedative | Medline (post 1990 searches filed in my computer) |
| Tranquilizer | |

BORNYL-ACETATE Shoot -- 32.0 -0.35 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.

Activities (12)

| | |
|----------------------------------|---|
| (-)-Chronotropic 933 nl/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| (-)-Inotropic 933 nl/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. |
| Antibacterial | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Antifeedant | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Antispasmodic ED50=0.09 mg/ml | Fitoterapia No.59-1984. |
| Antiviral | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Expectorant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| FLavor FEMA 70-80 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Insectifuge | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| Myorelaxant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Pesticide | |
| Sedative | |

| | | | | | |
|----------------|-------|----|------|-------|--|
| BORNYL-ACETATE | Shoot | -- | 32.0 | -0.35 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|----------------|-------|----|------|-------|--|

Activities (12)

| | | | | | |
|-------------------------------|---|--|--|--|--|
| (-)-Chronotropic 933 n/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. | | | | |
| (-)-Inotropic 933 n/ml | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. | | | | |
| Antibacterial | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. | | | | |
| Antifeedant | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. | | | | |
| Antispasmodic ED50=0.09 mg/ml | Fitoterapia No.59-1984. | | | | |
| Antiviral | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. | | | | |
| Expectorant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| FLavor FEMA 70-80 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Insectifuge | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. | | | | |
| Myorelaxant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. | | | | |
| Pesticide | | | | | |
| Sedative | | | | | |

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|-----------------|-------|----|----|--|--|
| BORNYL-BUTYRATE | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|-----------------|-------|----|----|--|--|

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|-----------------|-------|----|-----|--|--|
| BORNYL-BUTYRATE | Shoot | -- | 5.0 | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|-----------------|-------|----|-----|--|--|

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|----------------|-------|----|-----|-------|--|
| BORNYL-FORMATE | Shoot | -- | 8.0 | -0.71 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|----------------|-------|----|-----|-------|--|

Activities (1)

| | | | | | |
|----------------|---|--|--|--|--|
| FLavor FEMA <1 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
|----------------|---|--|--|--|--|

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|----------------|-------|----|-----|-------|--|
| BORNYL-FORMATE | Shoot | -- | 8.0 | -0.71 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
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Activities (1)

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|----------------|---|--|--|--|--|
| FLavor FEMA <1 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
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|--------------------|-------|----|----|--|--|
| BORNYL-ISOVALERATE | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
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|--------------------|-------|----|-----|------|--|
| BORNYL-ISOVALERATE | Shoot | -- | 4.0 | -1.0 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|--------------------|-------|----|-----|------|--|

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|-------------------|-------|----|----|--|--|
| BORNYL-PROPIONATE | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|-------------------|-------|----|----|--|--|

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|-------------------|-------|----|-----|--|--|
| BORNYL-PROPIONATE | Shoot | -- | 5.0 | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|-------------------|-------|----|-----|--|--|

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|----------|-------|----|-------|-------|--|
| CAMPHENE | Shoot | -- | 470.0 | -0.09 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
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Activities (9)

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|----------------------|---|--|--|--|--|
| Allelopathic | Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands. | | | | |
| Antilithic? | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Antioxidant | Jim Duke's personal files. | | | | |
| Expectorant | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. | | | | |
| FLavor FEMA 15-175 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Hypocholesterolemic? | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. | | | | |
| Pesticide | | | | | |
| Spasmogenic | Fitoterapia No.59-1984. | | | | |

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|----------|-------|----|-------|-------|--|
| CAMPHENE | Shoot | -- | 470.0 | -0.09 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
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Activities (9)

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|-----------------------|---|--|--|--|
| Allelopathic | Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands. | | | |
| Antilithic? | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Antioxidant | Jim Duke's personal files. | | | |
| Expectorant | Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin. | | | |
| FLavor FEMA 15-175 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry | | | |
| Hypocholesterolemic? | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Insectifuge Pesticide | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. | | | |
| Spasmogenic | Fitoterapia No.59-1984. | | | |

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|-------------|-------|----|--------|-------|--|
| CAMPHOLENAL | Shoot | -- | 8.0 | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| CAMPHOLENAL | Shoot | -- | 8.0 | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| CAMPHOR | Shoot | -- | 1135.0 | -0.11 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |

Activities (41)

| | |
|---------------------------------|---|
| Allelopathic | |
| Analgesic | |
| Anesthetic | |
| Antiacne | Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp. |
| Antidiarrheic 500 ug/ml | Wealth of India. |
| Antidysenteric 500 ug/ml | Wealth of India. |
| Antiemetic 100-200 mg man orl | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. |
| Antifeedant IC50=5,000 ppm diet | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, <i>Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology</i> , v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Antifibrositic | Martindale's 28th |
| Antineuralgic | Martindale's 28th |
| Antipruritic | Merck 11th Edition |
| Antiseptic | Merck 11th Edition |
| Antispasmodic ED50=0.075 mg/ml | Fitoterapia No.59-1984. |
| CNS-Stimulant | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Carminative | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. <i>J. Pharm. Pharmacol.</i> 46: 14-18, 1994. |
| Convulsant | R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. <i>Tips 13:15-20</i> Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. <i>Anns. Intern. Med.</i> 117(2):165-6; Huxtable, R. |
| Cosmetic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Counterirritant | Martindale's 28th |
| Decongestant | Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp. |
| Deliriant | Merck 11th Edition |
| Ecbolic | |
| Emetic | |
| Epileptogenic | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp. |
| Expectorant | Martindale's 29th |
| Fungicide ED50=2.7 mM | Keeler, R.F. and Tu, A.T. eds. 1991. <i>Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6)</i> Marcel Dekker, Inc. NY. 665 pp. |
| Herbicide IC50=3.3-180 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, <i>Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology</i> , v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Insect-Repellent | |
| Insectifuge | |
| Irritant | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Occuloirritant | |
| P450-2B1-Inhibitor IC50=7.89 uM | |
| Pesticide | |
| Respirainhibitor | Merck 11th Edition |
| Respirastimulant | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. |
| Rubefacient | |
| Stimulant | R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. <i>Tips 13:15-20</i> Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. <i>Anns. Intern. Med.</i> 117(2):165-6; Huxtable, R. |
| Transdermal | |
| Verrucolytic | Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp. |
| Vibriocide 500 ug/ml | Wealth of India. |

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|---------|-------|----|--------|-------|--|
| CAMPHOR | Shoot | -- | 1135.0 | -0.11 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|---------|-------|----|--------|-------|--|

Activities (41)

| | |
|---------------------------------|---|
| Allelopathic | |
| Analgesic | |
| Anesthetic | |
| Antiacne | Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp. |
| Antidiarrheic 500 ug/ml | Wealth of India. |
| Antidysenteric 500 ug/ml | Wealth of India. |
| Antiemetic 100-200 mg man orl | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. |
| Antifeedant IC50=5,000 ppm diet | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, <i>Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology</i> , v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Antifibrositic | Martindale's 28th |
| Antineuralgic | Martindale's 28th |
| Antipruritic | Merck 11th Edition |
| Antiseptic | Merck 11th Edition |
| Antispasmodic ED50=0.075 mg/ml | Fitoterapia No.59-1984. |
| CNS-Stimulant | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Carminative | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. <i>J. Pharm. Pharmacol.</i> 46: 14-18, 1994. |
| Convulsant | R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. <i>Tips</i> 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. <i>Anns. Intern. Med.</i> 117(2):165-6; Huxtable, R. |
| Cosmetic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Counterirritant | Martindale's 28th |
| Decongestant | Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp. |
| Deliriant | Merck 11th Edition |
| Ecboic | |
| Emetic | |
| Epileptogenic | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp. |
| Expectorant | Martindale's 29th |
| Fungicide ED50=2.7 mM | Keeler, R.F. and Tu, A.T. eds. 1991. <i>Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6)</i> Marcel Dekker, Inc. NY. 665 pp. |
| Herbicide IC50=3.3-180 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, <i>Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology</i> , v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Insect-Repellent | |
| Insectifuge | |
| Irritant | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Occuloirritant | |
| P450-2B1-Inhibitor IC50=7.89 uM | |
| Pesticide | |
| Respirainhibitor | Merck 11th Edition |
| Respirastimulant | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. |
| Rubefacient | |
| Stimulant | R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That: The Essential Pharmacology of Herbs and Spices. <i>Tips</i> 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. <i>Anns. Intern. Med.</i> 117(2):165-6; Huxtable, R. |
| Transdermal | |
| Verrucolytic | Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp. |
| Vibriocide 500 ug/ml | Wealth of India. |

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|-----------|-------|----|----|--|
| CARVACROL | Shoot | -- | -- | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|-----------|-------|----|----|--|

Activities (37)

| | |
|-------------------------------------|--|
| Allergenic | |
| Anesthetic | |
| Anthelmintic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antialzheimeran? | L. Gracza (1985) as cited by Buchbauer re antiacetylcholinesterase. |
| Antiatherosclerotic IC50=5.53 uM | |
| Antibacterial MIC 170-290 | Chalchat, J.C. et Garry, R.P.*, Bastide, P., Fabre, F. et Malhuret, R. Correlation Composition Chimique/Activite Antimicrobienne: V - Contribution a la Comparaison de 2 Methodes de Determination Des Cml. Plantes medicinales et phytotherapie, 25: 184-193. |
| Antibacterial MIC=39-625 | Russell, G. B., Phytochemical resources for crop protection, N. Z. J. Technol., 2, 1986, 127-134. |
| Anticholinesterase? | L. Gracza (1985) as cited by Buchbauer re antiacetylcholinesterase. |
| Antidiuretic | Lawrence Review of Natural Products, Mar-92. |
| Antiinflammatory IC50=4 uM | |
| Antimelanomic IC50=120 uM/l | |
| Antioxidant | Jimenez, J., Navarro, M.C., Montilla, M.P., Martin, A. and Martinez, A. 1993. Thymus zygis Oil: Its Effects on CCl4-Induced Hepatotoxicity and Free Radical Scavenger Activity. JE05: 153-8. |
| Antioxidant (LDL) IC50=5.53 uM | |
| Anti plaque MIC=39-625 ug/ml | Osawa, K., Matsumoto, T., Maruyama, T., Takiguchi, T., Okuda, K., and Takazoe, I., Studies of the antibacterial activity of plant extracts and their constituents against periodontopathic bacteria, Bull Tokyo Dent. Coll., 31 (1), 1990, 17-21 |
| Antiprostaglandin | |
| Antiradicular 600 x thymol | Jimenez, J., Navarro, M.C., Montilla, M.P., Martin, A. and Martinez, A. 1993. Thymus zygis Oil: Its Effects on CCl4-Induced Hepatotoxicity and Free Radical Scavenger Activity. JE05: 153-8. |
| Antiseptic 1.5 x phenol | |
| Antispasmodic | |
| Antistaphylococcic | |
| Antistreptococcic | |
| Antitussive | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Candidicide MIC<0.1 ug/ml | |
| Candidicide 100- 150 ug/ml | |
| Carminative | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Cyclooxygenase- Inhibitor #NAME? | |
| Enterorelaxant | J. Aromatherapy 4: 22. |
| Expectorant | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Flavor FEMA 10- 125 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Insectifuge | |
| Irritant | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Nematicide MLC=1 mg/ml | |
| Pesticide | |
| Prostaglandin- Inhibitor | |
| Tracheorelaxant | |
| Trichomonidic LD100=150 ug/ml | |
| Vermifuge | |

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|-----------|-------|----|-----|-------|--|
| CARVACROL | Shoot | -- | 4.0 | -0.62 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|-----------|-------|----|-----|-------|--|

Activities (37)

| | |
|-------------------------------------|--|
| Allergenic | |
| Anesthetic | |
| Anthelmintic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antialzheimeran? | L. Gracza (1985) as cited by Buchbauer re antiacetylcholinesterase. |
| Antiatherosclerotic IC50=5.53 uM | |
| Antibacterial MIC 170-290 | Chalchat, J.C. et Garry, R.P.*, Bastide, P., Fabre, F. et Malhuret, R. Correlation Composition Chimique/Activite Antimicrobienne: V - Contribution a la Comparaison de 2 Methodes de Determination Des Cml. Plantes medicinales et phytotherapie, 25: 184-193. |
| Antibacterial MIC=39-625 | Russell, G. B., Phytochemical resources for crop protection, N. Z. J. Technol., 2, 1986, 127-134. |
| Anticholinesterase? | L. Gracza (1985) as cited by Buchbauer re antiacetylcholinesterase. |
| Antidiuretic | Lawrence Review of Natural Products, Mar-92. |
| Antiinflammatory IC50=4 uM | |
| Antimelanomic IC50=120 uM/l | |
| Antioxidant | Jimenez, J., Navarro, M.C., Montilla, M.P., Martin, A. and Martinez, A. 1993. Thymus zygis Oil: Its Effects on CCl4-Induced Hepatotoxicity and Free Radical Scavenger Activity. JEO5: 153-8. |
| Antioxidant (LDL) IC50=5.53 uM | |
| Anti plaque MIC=39-625 ug/ml | Osawa, K., Matsumoto, T., Maruyama, T., Takiguchi, T., Okuda, K., and Takazoe, I., Studies of the antibacterial activity of plant extracts and their constituents against periodontopathic bacteria, Bull Tokyo Dent. Coll., 31 (1), 1990, 17-21 |
| Antiprostaglandin | |
| Antiradicular 600 x thymol | Jimenez, J., Navarro, M.C., Montilla, M.P., Martin, A. and Martinez, A. 1993. Thymus zygis Oil: Its Effects on CCl4-Induced Hepatotoxicity and Free Radical Scavenger Activity. JEO5: 153-8. |
| Antiseptic 1.5 x phenol | |
| Antispasmodic | |
| Antistaphylococcic | |
| Antistreptococcic | |
| Antitussive | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Candidicide MIC<0.1 ug/ml | |
| Candidicide 100- 150 ug/ml | |
| Carminative | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Cyclooxygenase- Inhibitor #NAME? | |
| Enterorelaxant | J. Aromatherapy 4: 22. |
| Expectorant | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Flavor FEMA 10- 125 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Insectifuge | |
| Irritant | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Nematicide MLC=1 mg/ml | |
| Pesticide | |
| Prostaglandin- Inhibitor | |
| Tracheorelaxant | |
| Trichomonicide LD100=150 ug/ml | |
| Vermifuge | |

| | | | | | |
|---------|-------|----|-----|-------|--|
| CARVONE | Shoot | -- | 8.0 | -0.26 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|---------|-------|----|-----|-------|--|

Activities (19)

| | |
|---|---|
| Allergenic | |
| Antiacetylcholinesterase IC50=1.4-1.8 mM | |
| Antiproliferative | |
| Antiseptic 1.5 x phenol | Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176) |
| CNS-Stimulant | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidistat | |
| Carminative | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| FLavor FEMA 80-3,000 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungistat | |
| Insecticide | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Motor-Depressant | Buchbauer et al, e.g.Buchbauer et al,1993.Therapeutic properties of essential oils and fragrances. Chap.12 in Teranishi,R, Buttery,R.G and Sugisawa,H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Perfumery | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Pesticide | |
| Sedative | Buchbauer et al, e.g.Buchbauer et al,1993.Therapeutic properties of essential oils and fragrances. Chap.12 in Teranishi,R, Buttery,R.G and Sugisawa,H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Trichomonicide LD100=300 ug/ml | |
| Vermicide | |

CARVONE Shoot -- 8.0 -0.26 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.

Activities (19)

| | |
|---|---|
| Allergenic | |
| Antiacetylcholinesterase IC50=1.4-1.8 mM | |
| Antiproliferative | |
| Antiseptic 1.5 x phenol | Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176) |
| CNS-Stimulant | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidistat | |
| Carminative | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| FLavor FEMA 80-3,000 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungistat | |
| Insecticide | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Motor-Depressant | Buchbauer et al, e.g.Buchbauer et al,1993.Therapeutic properties of essential oils and fragrances. Chap.12 in Teranishi,R, Buttery,R.G and Sugisawa,H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Perfumery | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Pesticide | |
| Sedative | Buchbauer et al, e.g.Buchbauer et al,1993.Therapeutic properties of essential oils and fragrances. Chap.12 in Teranishi,R, Buttery,R.G and Sugisawa,H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Trichomonicide LD100=300 ug/ml | |
| Vermicide | |

CARYOPHYLLENE-
OXIDE Shoot -- 135.0 -0.1 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.

| Activities (8) | | | | | |
|--------------------------------------|--|--|--|--|--|
| Antiedemic | Shimizu,*M., et al. 1990. Anti-inflammatory Constituents of Topically Applied Crude Drugs. IV.1) Constituents and Anti-inflammatory Effect of Paraguayan Crude Drug 'Alhucema' (Lavandula latifolia Vill.)2). Chem. Pharm. Bull. 38(8): 2283-2284, 1990. | | | | |
| Antifeedant | Bettarini, F., Borgonovi, G.E., et al. 1991. Antiparasitic Compounds from East African Plants: Isolation and Biological Activity of Anonaine, Matricarianol, Canthin-6-One and Caryophyllene Oxide. Insect Sci. Applic. 14(1): 93-99, 1993. | | | | |
| Antiinflammatory | Shimizu,*M., et al. 1990. Anti-inflammatory Constituents of Topically Applied Crude Drugs. IV.1) Constituents and Anti-inflammatory Effect of Paraguayan Crude Drug 'Alhucema' (Lavandula latifolia Vill.)2). Chem. Pharm. Bull. 38(8): 2283-2284, 1990. | | | | |
| Antitumor | Zheng, G-Q., Kenney, P.M., and Lam, L.K.T. Sesquiterpenes From Clove (Eugenia caryophyllata) As Potential Anticarcinogenic Agents. Journal of Natural Products 55(7): 999-1003, 1992. | | | | |
| Calcium-Antagonist ED50=32 uM gpg | | | | | |
| Fungicide | | | | | |
| Insecticide | Bettarini, F., Borgonovi, G.E., et al. 1991. Antiparasitic Compounds from East African Plants: Isolation and Biological Activity of Anonaine, Matricarianol, Canthin-6-One and Caryophyllene Oxide. Insect Sci. Applic. 14(1): 93-99, 1993. | | | | |
| Pesticide | | | | | |

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|---------------------|-------|----|-------|------|--|
| CARYOPHYLLENE-OXIDE | Shoot | -- | 135.0 | -0.1 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|---------------------|-------|----|-------|------|--|

| Activities (8) | | | | | |
|--------------------------------------|--|--|--|--|--|
| Antiedemic | Shimizu,*M., et al. 1990. Anti-inflammatory Constituents of Topically Applied Crude Drugs. IV.1) Constituents and Anti-inflammatory Effect of Paraguayan Crude Drug 'Alhucema' (Lavandula latifolia Vill.)2). Chem. Pharm. Bull. 38(8): 2283-2284, 1990. | | | | |
| Antifeedant | Bettarini, F., Borgonovi, G.E., et al. 1991. Antiparasitic Compounds from East African Plants: Isolation and Biological Activity of Anonaine, Matricarianol, Canthin-6-One and Caryophyllene Oxide. Insect Sci. Applic. 14(1): 93-99, 1993. | | | | |
| Antiinflammatory | Shimizu,*M., et al. 1990. Anti-inflammatory Constituents of Topically Applied Crude Drugs. IV.1) Constituents and Anti-inflammatory Effect of Paraguayan Crude Drug 'Alhucema' (Lavandula latifolia Vill.)2). Chem. Pharm. Bull. 38(8): 2283-2284, 1990. | | | | |
| Antitumor | Zheng, G-Q., Kenney, P.M., and Lam, L.K.T. Sesquiterpenes From Clove (Eugenia caryophyllata) As Potential Anticarcinogenic Agents. Journal of Natural Products 55(7): 999-1003, 1992. | | | | |
| Calcium-Antagonist ED50=32 uM gpg | | | | | |
| Fungicide | | | | | |
| Insecticide | Bettarini, F., Borgonovi, G.E., et al. 1991. Antiparasitic Compounds from East African Plants: Isolation and Biological Activity of Anonaine, Matricarianol, Canthin-6-One and Caryophyllene Oxide. Insect Sci. Applic. 14(1): 93-99, 1993. | | | | |
| Pesticide | | | | | |

| | | | | | |
|----------------------|-------|----|------|-------|--|
| CIS-SABINENE-HYDRATE | Shoot | -- | 65.0 | -0.07 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|----------------------|-------|----|------|-------|--|

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|----------------------|-------|----|------|-------|--|
| CIS-SABINENE-HYDRATE | Shoot | -- | 65.0 | -0.07 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|----------------------|-------|----|------|-------|--|

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|-------------|-------|----|------|-------|--|
| CITRONELLOL | Shoot | -- | 16.0 | -0.18 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|-------------|-------|----|------|-------|--|

| Activities (15) | | | | | |
|-----------------------------------|--|--|--|--|--|
| Allergenic | | | | | |
| Antibacterial | | | | | |
| Antiseptic | | | | | |
| Antistaphylococcic | | | | | |
| Antistreptococcic | | | | | |
| Candidicide | | | | | |
| FLavor FEMA 1-50 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Fungicide | HerbalGram No. 17. | | | | |
| Herbicide IC50=160 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. | | | | |
| Irritant | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. | | | | |
| Nematicide MLC=100 ug/ml | Shoyakugaku Zasshi, 44: 183. | | | | |
| Perfumery | Merck 11th Edition | | | | |
| Pesticide | | | | | |
| Sedative | Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176) | | | | |
| Trichomonicide LD100=300 ug/ml | | | | | |

| | | | | | |
|-------------|-------|----|------|-------|--|
| CITRONELLOL | Shoot | -- | 16.0 | -0.18 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|-------------|-------|----|------|-------|--|

Activities (15)

| | |
|--------------------------------|--|
| Allergenic | |
| Antibacterial | |
| Antiseptic | |
| Antistaphylococcic | |
| Antistreptococcic | |
| Candidicide | |
| FLavor FEMA 1-50 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | HerbalGram No. 17. |
| Herbicide IC50=160 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Irritant | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Nematicide MLC=100 ug/ml | Shoyakugaku Zasshi, 44: 183. |
| Perfumery | Merck 11th Edition |
| Pesticide | |
| Sedative | Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176) |
| Trichomonicide LD100=300 ug/ml | |

| | | | | | |
|---------|-------|----|-----|------|--|
| CUBENOL | Shoot | -- | 8.0 | 1.85 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|---------|-------|----|-----|------|--|

| | | | | | |
|---------|-------|----|-----|------|--|
| CUBENOL | Shoot | -- | 8.0 | 1.85 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|---------|-------|----|-----|------|--|

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|----------|-------|----|----|--|--|
| CUPARENE | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|----------|-------|----|----|--|--|

Activities (1)

Antiinflammatory

| | | | | | |
|----------|-------|----|----|--|--|
| CUPARENE | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|----------|-------|----|----|--|--|

Activities (1)

Antiinflammatory

| | | | | | |
|----------------|-------|----|------|------|--|
| DELTA-CADINENE | Shoot | -- | 16.0 | -0.3 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|----------------|-------|----|------|------|--|

Activities (9)

Aldose-Reductase-Inhibitor

Antiacne

| | |
|----------------------------|---|
| Antibacterial MIC800 ug/ml | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. J. Agric. Food Chem. 41: 1102-1105. |
|----------------------------|---|

| | |
|-----------------------------|---|
| Anticariogenic MIC800 ug/ml | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. J. Agric. Food Chem. 41: 1102-1105. |
|-----------------------------|---|

Antistreptococcic

Cytochrome-P450-Inducer

P450-Inducer

Pesticide

Testosterone-Inducer

| | | | | | |
|----------------|-------|----|------|------|--|
| DELTA-CADINENE | Shoot | -- | 16.0 | -0.3 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|----------------|-------|----|------|------|--|

Activities (9)

Aldose-Reductase-Inhibitor

Antiacne

Antibacterial MIC800 ug/ml

Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. J. Agric. Food Chem. 41: 1102-1105.

Anticarcinogenic MIC800 ug/ml

Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. J. Agric. Food Chem. 41: 1102-1105.

Antistreptococcic

Cytochrome-P450-Inducer

P450-Inducer

Pesticide

Testosterone-Inducer

| | | | | | |
|-----------------|-------|----|--------|-------|--|
| DELTA-ELEMENE | Shoot | -- | -- | -0.77 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| DELTA-ELEMENE | Shoot | -- | -- | -0.77 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| DELTA-TERPINEOL | Shoot | -- | 24.0 | -0.59 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| DELTA-TERPINEOL | Shoot | -- | 24.0 | -0.59 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| EO | Shoot | -- | 8000.0 | -0.21 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| EO | Shoot | -- | 8000.0 | -0.21 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| EUGENOL | Shoot | -- | 5.0 | -0.49 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |

Activities (76)

Acaricide LD50=5.47 ug/sq cm cf DEET at 37.59 ug/sq cm

Allergenic

Analgesic

Merck 11th Edition

Anesthetic 200-400

Phytotherapy Research, 4: 93.

AntiTNF

Antiaggregant IC50=0.3 uM

Phytotherapy Research, 4: 93.

Antiarachidonate

Antibacterial 500 ppm

Valnet, J. 1982. The Practice of Aromatherapy. Translated from the 1980 French Edition by Robin Campbell and Libby Houston. Destiny Books, New York. 279 pp.

Antibacterial MBC=400 ug/ml

Anticonvulsant

Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Antiedemic 100

Phytotherapy Research, 4: 95.

Antiandrogenic

Antifeedant

Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.

Antigenotoxic 50-500 mg/kg orl mus

Antiherpetic IC50=16.2-25.6 ug/ml

Antiinflammatory (11 uM) IC~97=1,000 uM

Antikeratotic IC50=16.2-25.6 ug/ml

Antimitotic

Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Antimutagenic

Economic & Medicinal Plant Research, 6: 235.

Antinitrosating

Antioxidant IC65=30 ppm

Antioxidant 10 uM

Antiprostaglandin 11 uM

Antiprostaglandin IC50=9.2 mM

Antipyretic 3 ml/man/day

Antiradicular EC50=2 ul/l

Antisalmonella MIC=400 ug/ml

Antiseptic 3 ml/man/day

Antiseptic 400 ug/ml

| | |
|---|--|
| Antispasmodic | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Antistaphylococcic | Wright, C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,J.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands. |
| Antithromboxane | Lawrence Review of Natural Products, Jul-87. |
| Antitumor | Zheng, G-Q., Kenney, P.M., and Lam, L.K.T. Sesquiterpenes From Clove (<i>Eugenia caryophyllata</i>) As Potential Anticarcinogenic Agents. Journal of Natural Products 55(7): 999-1003, 1992. |
| Antiulcer | |
| Antiviral IC50=16.2-25.6 ug/ml | |
| Apifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| CNS-Depressant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| COX-1-Inhibitor IC97=1,000 uM | |
| COX-2-Inhibitor IC>97=1,000 uM | |
| COX-2-Inhibitor IC50=129 uM | |
| Calcium-Antagonist IC50=224 uM | |
| Calcium-Antagonist IC50=200 uM gpg | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidicide | Phytotherapy Research, 4: 93. |
| Carcinogenic? | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Carminative | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Choleretic | |
| Cytochrome-P450-Inhibitor | Pizzorno, J. 1998. Total Wellness. Prima Health, a division of Prima. |
| Cytotoxic 25 ug/ml | Phytotherapy Research, 4: 93. |
| Dermatitigenic | |
| Enterorelaxant | J. Aromatherapy 4: 22. |
| FLavor FEMA 10-500 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | |
| Hepatoprotective 100 ppm | |
| Herbicide | |
| Insecticide | |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Irritant | |
| Juvabional | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Larvicide | |
| Motor-Depressant | Buchbauer et al. e.g.Buchbauer et al,1993.Therapeutic properties of essential oils and fragrances. Chap.12 in Teranishi,R, Buttery,R.G and Sugisawa,H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Nematicide MLC=2,000 ug/ml | Shoyakugaku Zasshi, 44: 183. |
| Neurotoxic | R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That:The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Med. 117(2):165-6; Huxtable, R. |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Pesticide | |
| Prostaglandin-Synthesis-Inhibitor 1 mM rbt | Chen, S. J., Wang, M. H., Chen, I. J. 1996. Antiplatelet and Calcium Inhibitory Properties of Eugenol and Sodium Eugenol Acetate. Gen Pharmacol, 27(4): 629-633. |
| Prostaglandin-Synthesis-Inhibitor IC50=9.2 uM | |
| Sedative | |
| Termiticide LD100=5 mg/g | |
| Trichomonicide LD100=300 ug/ml | |
| Trichomonistat IC50=10 ug/ml | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Trypsin-Enhancer | Lawrence Review of Natural Products, Dec-93. |
| Ulcerogenic | Phytotherapy Research, 4: 93. |
| Varroacide | |
| Vasodilator | |
| Vermifuge | |

EUGENOL Shoot -- -- Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. Flav. & Fragr. J. 10(6): 379-383.

Activities (76)

Acaricide LD50=5.47 ug/sq cm cf DEET at 37.59 ug/sq cm

Allergenic

Analgesic Merck 11th Edition

Anesthetic 200-400 Phytotherapy Research, 4: 93.

| | |
|---|---|
| AntiTNF | |
| Antiangregant IC50=0.3 uM | Phytotherapy Research, 4: 93. |
| Antiarachidonate | |
| Antibacterial 500 ppm | Valnet, J. 1982. The Practice of Aromatherapy. Translated from the 1980 French Edition by Robin Campbell and Libby Houston. Destiny Books, New York. 279 pp. |
| Antibacterial MBC=400 ug/ml | |
| Anticonvulsant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antiedemic 100 | Phytotherapy Research, 4: 95. |
| Antiestrogenic | |
| Antifeedant | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Antigenotoxic 50-500 mg/kg orl mus | |
| Antiherpetic IC50=16.2-25.6 ug/ml | |
| Antiinflammatory (11 uM) IC~97=1,000 uM | |
| Antikeratotic IC50=16.2-25.6 ug/ml | |
| Antimitotic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antimutagenic | Economic & Medicinal Plant Research, 6: 235. |
| Antinitrosating | |
| Antioxidant IC65=30 ppm | |
| Antioxidant 10 uM | |
| Antiprostaglandin 11 uM | |
| Antiprostaglandin IC50=9.2 mM | |
| Antipyretic 3 ml/man/day | |
| Antiradicular EC50=2 ul/l | |
| Antisalmonella MIC=400 ug/ml | |
| Antiseptic 3 ml/man/day | |
| Antiseptic 400 ug/ml | |
| Antispasmodic | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Antistaphylococccic | Wright, C.W. (Ed) 2002. Medicinal & Aromatic Plants-Industrial Profiles. Artemisia. 344pp. Maffei, M. (Ed) 2002. Vetiveria. The Genus Vetiveria. Taylor & Francis. NY, NY. 191pp. Southwell, I., Lowe, R. (Eds) 1999. Tea Tree. The Genus Melaleuca. Harwood Acad. Pub. Amsterdam, Netherlands. |
| Antithromboxane | Lawrence Review of Natural Products, Jul-87. |
| Antitumor | Zheng, G-Q., Kenney, P.M., and Lam, L.K.T. Sesquiterpenes From Clove (<i>Eugenia caryophyllata</i>) As Potential Anticarcinogenic Agents. Journal of Natural Products 55(7): 999-1003, 1992. |
| Antiulcer | |
| Antiviral IC50=16.2-25.6 ug/ml | |
| Apifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| CNS-Depressant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| COX-1-Inhibitor IC97=1,000 uM | |
| COX-2-Inhibitor IC>97=1,000 uM | |
| COX-2-Inhibitor IC50=129 uM | |
| Calcium-Antagonist IC50=224 uM | |
| Calcium-Antagonist IC50=200 uM gpg | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidicide | Phytotherapy Research, 4: 93. |
| Carcinogenic? | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Carminative | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Choleretic | |
| Cytochrome-P450-Inhibitor | Pizzorno, J. 1998. Total Wellness. Prima Health, a division of Prima. |
| Cytotoxic 25 ug/ml | Phytotherapy Research, 4: 93. |
| Dermatitigenic | |
| Enterorelaxant | J. Aromatherapy 4: 22. |
| FLavor FEMA 10-500 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Fungicide | |
| Hepatoprotective 100 ppm | |
| Herbicide | |
| Insecticide | |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Irritant | |
| Juvabional | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Larvicide | |

| | | | | | |
|---|--|--|--|--|--|
| Motor-Depressant | Buchbauer et al, e.g.Buchbauer et al,1993.Therapeutic properties of essential oils and fragrances. Chap.12 in Teranishi,R, Buttery,R.G and Sugisawa,H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC | | | | |
| Nematicide MLC=2,000 ug/ml | Shoyakugaku Zasshi, 44: 183. | | | | |
| Neurotoxic | R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. This and That:The Essential Pharmacology of Herbs and Spices. Tips 13:15-20 Huxtable, R.J. 1992b. The Myth of Benificent Nature. The Risk of Herbal Preparations. Anns. Intern. Med. 117(2):165-6; Huxtable, R. | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Pesticide | | | | | |
| Prostaglandin-Synthesis-Inhibitor 1 mM rbt | Chen, S. J., Wang, M. H., Chen, I. J. 1996. Antiplatelet and Calcium Inhibitory Properties of Eugenol and Sodium Eugenol Acetate. Gen Pharmacol, 27(4): 629-633. | | | | |
| Prostaglandin-Synthesis-Inhibitor IC50=9.2 uM | | | | | |
| Sedative | | | | | |
| Termiticide LD100=5 mg/g | | | | | |
| Trichomonicide LD100=300 ug/ml | | | | | |
| Trichomonistat IC50=10 ug/ml | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. | | | | |
| Trypsin-Enhancer | Lawrence Review of Natural Products, Dec-93. | | | | |
| Ulcerogenic | Phytotherapy Research, 4: 93. | | | | |
| Varroacide | | | | | |
| Vasodilator | | | | | |
| Vermifuge | | | | | |

| | | | | | |
|-----------------|-------|----|------|-------|--|
| GAMMA-CADINENE | Shoot | -- | 16.0 | -0.2 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| GAMMA-CADINENE | Shoot | -- | 16.0 | -0.2 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| GAMMA-EUDES MOL | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| GAMMA-EUDES MOL | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| GAMMA-TERPINENE | Shoot | -- | 16.0 | -0.38 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |

Activities (11)

| | | | | | |
|---|--|--|--|--|--|
| ACE-Inhibitor 100 ug/ml (weak activity) | | | | | |
| Acaricide | | | | | |
| Aldose-Reductase-Inhibitor 100 ug/ml | Okamura, K., Iwakami, S., Matsunaga, T. 1992. Biological Activity of Monoterpenes from Trees. Toyama-Ken Yakuji Kenkyusho Nenpo, (20): 95-101. | | | | |
| Antiacetylcholinesterase IC23=1.2 mM | | | | | |
| Antifeedant | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. | | | | |
| Antioxidant | Jim Duke's personal files. | | | | |
| FLavor FEMA 1-40 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Insectifuge | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. | | | | |
| Irritant | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Pesticide | | | | | |

| | | | | | |
|-----------------|-------|----|------|-------|--|
| GAMMA-TERPINENE | Shoot | -- | 16.0 | -0.38 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|-----------------|-------|----|------|-------|--|

Activities (11)ACE-Inhibitor 100 ug/ml
(weak activity)

Acaricide

Aldose-Reductase-Inhibitor 100 ug/ml Okamura, K., Iwakami, S., Matsunaga, T. 1992. Biological Activity of Monoterpenes from Trees. Toyama-Ken Yakuji Kenkyusho Nenpo, (20): 95-101.

Antiacetylcholinesterase
IC23=1.2 mM

Antifeedant Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin.

Antioxidant Jim Duke's personal files.

FLavor FEMA 1-40 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Insectifuge Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin.

Irritant Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.

Perfumery Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Pesticide

| | | | | | |
|----------|-------|----|-----|------|--|
| GERANIAL | Shoot | -- | 8.0 | -0.6 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|----------|-------|----|-----|------|--|

Activities (13)AntiEBV IC50=16
uM

Antiaflatoxin

Antibacterial Onawunmi, G.O., Yisak, W-A., Ogunlana,* E.O. 1984. Antibacterial Constituents In The Essential Oil Of Cymbopogon citratus (DC.) Stapf. Journal of Ethnopharmacology, 12: 279-286, 1984.

Antitumor (Colon)

Antitumor (Skin)

Antiviral IC50=16
uM

Antiyeast

Chemopreventive

Estrogenic

Fungicide

Glutathionigenic

Pesticide

Spasmolytic

| | | | | | |
|----------|-------|----|-----|------|--|
| GERANIAL | Shoot | -- | 8.0 | -0.6 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|----------|-------|----|-----|------|--|

Activities (13)AntiEBV IC50=16
uM

Antiaflatoxin

Antibacterial Onawunmi, G.O., Yisak, W-A., Ogunlana,* E.O. 1984. Antibacterial Constituents In The Essential Oil Of Cymbopogon citratus (DC.) Stapf. Journal of Ethnopharmacology, 12: 279-286, 1984.

Antitumor (Colon)

Antitumor (Skin)

Antiviral IC50=16
uM

Antiyeast

Chemopreventive

Estrogenic

Fungicide

Glutathionigenic

Pesticide

Spasmolytic

| | | | | | |
|----------|-------|----|-----|------|--|
| GERANIOL | Shoot | -- | 8.0 | -0.5 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|----------|-------|----|-----|------|--|

Activities (35)

| | |
|--------------------------------------|--|
| Allergenic | |
| Anthelmintic | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| Antibacterial MIC=400 ug/ml | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. J. Agric. Food Chem. 41: 1102-1105. |
| Antibacterial MIC=64 ug/ml | |
| Antibacterial MBC=800 ug/ml | |
| Anticancer (Pancreas) IC50=265 uM | |
| Anticariogenic MIC=400 ug/ml | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. J. Agric. Food Chem. 41: 1102-1105. |
| Antimelanomic IC50=150 uM/l | |
| Antisalmonella MIC=400 ug/ml | |
| Antiseptic 7 x phenol | Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176) |
| Antiseptic MIC=64 ug/ml | |
| Antiseptic 400-800 ug/ml | |
| Antispasmodic | Buchbauer, G., Jirovetz*, L., Nikiforov, A., Remberg, G., Raverdino, V. 1989. Headspace-Analysis and Aroma Compounds of Austrian Hay-Blossoms (Flores Graminis, Graminis Flos) used in Aromatherapy. J. Ess. Oil Res., 2: 185-191, 1990. |
| Antitubercular MIC=64 ug/ml | |
| Antitumor | Yu, S.G., Anderson, P.J., and Elson, C.E. 1995. Efficacy of B-Ionone in the Chemoprevention of Rat Mammary Carcinogenesis. J. Agric. Food Chem. 43: 2144-2147. |
| Antitumor (Pancreas) IC50=265 uM | |
| Ascaricide | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| CNS-Stimulant | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidicide | |
| Embryotoxic | |
| Emetic 3 x ipecac | Lawrence Review of Natural Products, Sep-97. |
| Expectorant | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| FLavor FEMA 1-10 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Fungicide IC93=2 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Herbicide IC100-2,000 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Insectifuge 50 ppm | |
| Insectiphile | Merck 11th Edition |
| Mycobactericide MIC=64 ug/ml | |
| Nematicide IC86=100 ug/ml | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Nematicide MLC=1,000 ug/ml | Shoyakugaku Zasshi, 44: 183. |
| Perfumery | Merck 11th Edition |
| Pesticide | |
| Sedative | |
| Trichomonicide LD100=300 ug/ml | |

| | | | | | |
|----------|-------|----|-----|------|--|
| GERANIOL | Shoot | -- | 8.0 | -0.5 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|----------|-------|----|-----|------|--|

Activities (35)

| | |
|--------------------------------------|--|
| Allergenic | |
| Anthelmintic | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| Antibacterial MIC=400 ug/ml | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. J. Agric. Food Chem. 41: 1102-1105. |
| Antibacterial MIC=64 ug/ml | |
| Antibacterial MBC=800 ug/ml | |
| Anticancer (Pancreas) IC50=265 uM | |
| Anticariogenic MIC=400 ug/ml | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. J. Agric. Food Chem. 41: 1102-1105. |
| Antimelanomic IC50=150 uM/l | |
| Antisalmonella MIC=400 ug/ml | |
| Antiseptic 7 x phenol | Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176) |
| Antiseptic MIC=64 ug/ml | |
| Antiseptic 400-800 ug/ml | |
| Antispasmodic | Buchbauer, G., Jirovetz*, L., Nikiforov, A., Remberg, G., Raverdino, V. 1989. Headspace-Analysis and Aroma Compounds of Austrian Hay-Blossoms (Flores Graminis, Graminis Flos) used in Aromatherapy. J. Ess. Oil Res., 2: 185-191, 1990. |
| Antitubercular MIC=64 ug/ml | |
| Antitumor | Yu, S.G., Anderson, P.J., and Elson, C.E. 1995. Efficacy of B-Ionone in the Chemoprevention of Rat Mammary Carcinogenesis. J. Agric. Food Chem. 43: 2144-2147. |
| Antitumor (Pancreas) IC50=265 uM | |
| Ascaricide | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| CNS-Stimulant | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidicide | |
| Embryotoxic | |
| Emetic 3 x ipecac | Lawrence Review of Natural Products, Sep-97. |
| Expectorant | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| FLavor FEMA 1-10 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide IC93=2 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Herbicide IC100-2,000 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Insectifuge 50 ppm | |
| Insectiphile | Merck 11th Edition |
| Mycobactericide MIC=64 ug/ml | |
| Nematicide IC86=100 ug/ml | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Nematicide MLC=1,000 ug/ml | Shoyakugaku Zasshi, 44: 183. |
| Perfumery | Merck 11th Edition |
| Pesticide | |
| Sedative | |
| Trichomonicide LD100=300 ug/ml | |

GERANYL-ACETATE Shoot -- -- -0.53 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.

Activities (5)

| | |
|------------------|--|
| Allergenic | |
| FLavor FEMA 1-20 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Insectiphile | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Perfumery | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Sedative | Jim Duke's personal files. |

GERANYL-ACETATE Shoot -- -- -0.53 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.

| Activities (5) | | | | | |
|------------------|--|--|--|--|--|
| Allergenic | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| FLavor FEMA 1-20 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Insectiphile | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Perfumery | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | |
| Sedative | Jim Duke's personal files. | | | | |

GERANYL-BUTYRATE Shoot -- 8.0 -0.47 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.

| Activities (3) | | | | | |
|------------------|--|--|--|--|--|
| FLavor FEMA 1-10 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Sedative | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. | | | | |

GERANYL-BUTYRATE Shoot -- 8.0 -0.47 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.

| Activities (3) | | | | | |
|------------------|--|--|--|--|--|
| FLavor FEMA 1-10 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Sedative | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. | | | | |

GERANYL-CAPROATE Shoot -- 8.0 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.

| Activities (2) | | | | | |
|-----------------|---|--|--|--|--|
| FLavor FEMA 1-3 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |

GERANYL-CAPROATE Shoot -- 8.0 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.

| Activities (2) | | | | | |
|-----------------|---|--|--|--|--|
| FLavor FEMA 1-3 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |

GERANYL-ISOBUTYRATE Shoot -- 8.0 1.41 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.

GERANYL-ISOBUTYRATE Shoot -- 7.0 -0.71 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.

GERANYL-ISOVALERATE Shoot -- -- Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.

| Activities (2) | | | | | |
|------------------|---|--|--|--|--|
| FLavor FEMA 4-10 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |

GERANYL-ISOVALERATE Shoot -- 5.0 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.

| Activities (2) | | | | | |
|------------------|---|--|--|--|--|
| FLavor FEMA 4-10 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |

GERANYL-PROPIONATE Shoot -- -- Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.

| Activities (2) | | | | | |
|------------------|---|--|--|--|--|
| FLavor FEMA 1-70 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |

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|--------------------|-------|----|-----|-------|--|
| GERANYL-PROPIONATE | Shoot | -- | 5.0 | -1.06 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|--------------------|-------|----|-----|-------|--|

Activities (2)

| | | | | | |
|-------------------------------|--|--|--|--|--|
| FLAVOR FEMA 1-70 Perfumery | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry | | | | |
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| | | | | | |
|------------------|-------|----|----|--|--|
| GERANYL-VALERATE | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|------------------|-------|----|----|--|--|

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|------------------|-------|----|-----|--|--|
| GERANYL-VALERATE | Shoot | -- | 5.0 | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|------------------|-------|----|-----|--|--|

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|--------------|-------|----|------|-------|--|
| GERMACRENE-D | Shoot | -- | 16.0 | -0.36 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|--------------|-------|----|------|-------|--|

Activities (2)

Pesticide
Pheromone

| | | | | | |
|--------------|-------|----|------|-------|--|
| GERMACRENE-D | Shoot | -- | 16.0 | -0.36 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|--------------|-------|----|------|-------|--|

Activities (2)

Pesticide
Pheromone

| | | | | | |
|----------|-------|----|------|-------|--|
| GLOBULOL | Shoot | -- | 16.0 | -0.22 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|----------|-------|----|------|-------|--|

| | | | | | |
|----------|-------|----|------|-------|--|
| GLOBULOL | Shoot | -- | 16.0 | -0.22 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|----------|-------|----|------|-------|--|

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|------------------|-------|----|----|--|--|
| ISOCARYOPHYLLENE | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|------------------|-------|----|----|--|--|

Activities (1)

Perfumery Jeffery B. Harborne and H. Baxter, eds. 1983. *Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.* Taylor & Frost, London. 791 pp.

| | | | | | |
|------------------|-------|----|-----|-----|--|
| ISOCARYOPHYLLENE | Shoot | -- | 5.0 | 1.0 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|------------------|-------|----|-----|-----|--|

Activities (1)

Perfumery Jeffery B. Harborne and H. Baxter, eds. 1983. *Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.* Taylor & Frost, London. 791 pp.

| | | | | | |
|----------|-------|----|----|--|--|
| LIMONENE | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|----------|-------|----|----|--|--|

Activities (60)

| | |
|---|--|
| AChE-Inhibitor | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, <i>Oest. Biochem. & Physiol.</i> , 23, 1985, 383-8. |
| Acaricide LC100=8 uM | |
| Allelochemic | |
| Allergenic 1/20th carene | |
| Antiacetylcholinesterase IC22-26=1.2 mM | |
| Antiadenomic | |
| Antialzheimeran? | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, <i>Oest. Biochem. & Physiol.</i> , 23, 1985, 383-8. |
| Antiasthmatic | |
| Antibacterial | Revista Itiliana Eppos, 12: 5, 1994. |
| Anticancer | |
| Antiesophagitic | |
| Antifeedant | |
| Antiflu | Economic & Medicinal Plant Research, 5: 195. |
| Antiinflammatory | |
| Antilithic | |
| Antilymphomic | |
| Antimetastatic (Stomach) | |
| Antimutagenic | Economic & Medicinal Plant Research, 6: 235. |
| Antiobesity | |
| Antiseptic | |
| Antispasmodic ED50=0.197 mg/ml | Fitoterapia No.59-1984. |
| Antitumor | |
| Antitumor (Breast) | |
| Antitumor (Colon) | |
| Antitumor (Pancreas) | |
| Antitumor (Prostate) | |
| Antitumor (Stomach) | |
| Antiviral | |
| Apoptotic | |
| Bronchoprotectant | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidistat | |
| Chemopreventive | |
| Cholesterolytic | |
| Detoxicant | |
| Enterocontractant | J. Aromatherapy 4: 22. |
| Expectorant | |
| FLavor | |
| Fungiphilic | J. Agric. Food Chem. 43: 2283. |
| Fungistat | |
| GST-Inducer | |
| Herbicide IC50=45 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Histaminic | |
| Immunomodulator | |
| Insecticide 0.37 uM/fly | |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Interleukin-6-Inhibitor | |
| Irritant | |
| Lipolytic | |
| Myorelaxant 50 mg/kg | |
| NO-Genic | |
| Nematicide IC=100 ug/ml | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Ornithine-Decarboxylase-Inhibitor ~750 mg/kg (diet) | |
| Ozone-Scavenger | |
| P450-Inducer | |
| Peristaltic | |
| Pesticide | |
| Photosensitizer | Rinzler, C. A. 1990. The Complete Book of Herbs, Spices and Condiments. Facts on File, New York. 199 pp. |
| Sedative ED=1-32 mg/kg | Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176) |
| Transdermal | |

| | | | | | |
|----------|-------|----|-----|-------|--|
| LIMONENE | Shoot | -- | 5.0 | -0.33 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|----------|-------|----|-----|-------|--|

Activities (60)

| | |
|---|--|
| AChE-Inhibitor | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, <i>Oest. Biochem. & Physiol.</i> , 23, 1985, 383-8. |
| Acaricide LC100=8 uM | |
| Allelochemic | |
| Allergenic 1/20th carene | |
| Antiacetylcholinesterase IC22-26=1.2 mM | |
| Antiadenomic | |
| Antialzheimeran? | Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, <i>Oest. Biochem. & Physiol.</i> , 23, 1985, 383-8. |
| Antiasthmatic | |
| Antibacterial | Revista Itiliana Eppos, 12: 5, 1994. |
| Anticancer | |
| Antiesophagitic | |
| Antifeedant | |
| Antiflu | Economic & Medicinal Plant Research, 5: 195. |
| Antiinflammatory | |
| Antilithic | |
| Antilymphomic | |
| Antimetastatic (Stomach) | |
| Antimutagenic | Economic & Medicinal Plant Research, 6: 235. |
| Antiobesity | |
| Antiseptic | |
| Antispasmodic ED50=0.197 mg/ml | Fitoterapia No.59-1984. |
| Antitumor | |
| Antitumor (Breast) | |
| Antitumor (Colon) | |
| Antitumor (Pancreas) | |
| Antitumor (Prostate) | |
| Antitumor (Stomach) | |
| Antiviral | |
| Apoptotic | |
| Bronchoprotectant | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidistat | |
| Chemopreventive | |
| Cholesterolytic | |
| Detoxicant | |
| Enterocontractant | J. Aromatherapy 4: 22. |
| Expectorant | |
| FLavor | |
| Fungiphilic | J. Agric. Food Chem. 43: 2283. |
| Fungistat | |
| GST-Inducer | |
| Herbicide IC50=45 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Histaminic | |
| Immunomodulator | |
| Insecticide 0.37 uM/fly | |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Interleukin-6-Inhibitor | |
| Irritant | |
| Lipolytic | |
| Myorelaxant 50 mg/kg | |
| NO-Genic | |
| Nematicide IC=100 ug/ml | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Ornithine-Decarboxylase-Inhibitor ~750 mg/kg (diet) | |
| Ozone-Scavenger | |
| P450-Inducer | |
| Peristaltic | |
| Pesticide | |
| Photosensitizer | Rinzler, C. A. 1990. The Complete Book of Herbs, Spices and Condiments. Facts on File, New York. 199 pp. |
| Sedative ED=1-32 mg/kg | Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176) |
| Transdermal | |

Activities (53)

| | |
|---|---|
| Acaricide C90=<15 ul/l (= <15 ppm) | |
| Allergenic | |
| Analgesic | |
| Anesthetic 0.01-1 ug/ml | |
| Antiacetylcholinesterase | |
| Antiallergic | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. |
| Antianaphylactic | |
| Antibacterial MIC=1,600 ug/ml | |
| Anticariogenic MIC=1,600 ug/ml | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against <i>Streptococcus mutans</i> . <i>J. Agric. Food Chem.</i> 41: 1102-1105. |
| Anticolic | |
| Anticonvulsant 200 mg/kg ipr mus | |
| Antiedemic | |
| Antiglutamaergic | |
| Antihistaminic | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. |
| Antiinflammatory | |
| Antileukemic IC50=3.5-4.2 ug/ml | Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46. |
| Antilymphomic IC50=3.5-4.2 ug/ml | Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46. |
| Antimange | |
| Antimite | |
| Antimutagenic | |
| Antiseptic 5 x phenol | Wagner & Wolff, eds. 1977. <i>New Natural Products</i> (RS164. I56. 176) |
| Antishock | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. |
| Antispasmodic | Buchbauer, G., Jirovetz*, L., Nikiforov, A., Remberg, G., Raverdino, V. 1989. Headspace-Analysis and Aroma Compounds of Austrian Hay-Blossoms (<i>Flores Graminis</i> , <i>Graminis Flos</i>) used in Aromatherapy. <i>J. Ess. Oil Res.</i> , 2: 185-191, 1990. |
| Antiviral | |
| Barbituate-Synergist | |
| Bronchorelaxant | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. |
| CNS-Depressant | |
| Cancer-Preventive | Stitt, P. A. <i>Why George Should Eat Broccoli</i> . Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidistat | |
| Carminative | |
| Culicide LC50=156-194 mg/l | |
| Cytotoxic | |
| Expectorant | Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp. |
| FLavor FEMA 2-40 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | <i>Acta Botanica Sinica</i> , 32: 49. |
| GABA-nergic | |
| Hypnotic | |
| Hypothermic | |
| Insecticide LC50=156-194 mg/l | |
| Insectifuge | Jacobson, M., <i>Glossary of Plant-Derived Insect Deterrents</i> , CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Irritant | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. <i>Compendium of Safety Data Sheets for Research and Industrial Chemicals</i> . VCH Publishers, New York. 3560-4253. |
| Larvicide LC50=156-194 mg/l | |
| Mosquitofuge > Deet | |
| Motor-Depressant | Buchbauer et al, e.g.Buchbauer et al,1993.Therapeutic properties of essential oils and fragrances. Chap.12 in Teranishi,R, Buttery,R.G and Sugisawa,H. Eds. <i>Bioactive Volatile Compounds from Plants</i> . ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Nematicide MLC=1 mg/ml | <i>Shoyakugaku Zasshi</i> , 44: 183. |
| Perfumery | Merck 11th Edition |
| Pesticide | |
| Prooxidant | Charalambous, G. (Ed.). 1994. <i>Spices, Herbs and Edible Fungi</i> . Elsevier Science B. V. Amsterdam. 764 pp. |
| Sedative ED=1-32 mg/kg | Wagner & Wolff, eds. 1977. <i>New Natural Products</i> (RS164. I56. 176) |
| Sedative 200 mg/kg ipr mus (1% as active as diazepam) | |
| Termitifuge | Jacobson, M., <i>Glossary of Plant-Derived Insect Deterrents</i> , CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Trichomonicide LD100=600 ug/ml | |
| Tumor-Promoter | |

Activities (53)

| | |
|---|---|
| Acaricide C90=<15 ul/l (= <15 ppm) | |
| Allergenic | |
| Analgesic | |
| Anesthetic 0.01-1 ug/ml | |
| Antiacetylcholinesterase | |
| Antiallergic | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. |
| Antianaphylactic | |
| Antibacterial MIC=1,600 ug/ml | |
| Anticariogenic MIC=1,600 ug/ml | Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. J. Agric. Food Chem. 41: 1102-1105. |
| Anticolic | |
| Anticonvulsant 200 mg/kg ipr mus | |
| Antiedemic | |
| Antiglutamaergic | |
| Antihistaminic | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. |
| Antiinflammatory | |
| Antileukemic IC50=3.5-4.2 ug/ml | Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. Am J Chin Med, 31(1):37-46. |
| Antilymphomic IC50=3.5-4.2 ug/ml | Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. Am J Chin Med, 31(1):37-46. |
| Antimange | |
| Antimite | |
| Antimutagenic | |
| Antiseptic 5 x phenol | Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176) |
| Antishock | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. |
| Antispasmodic | Buchbauer, G., Jirovetz*, L., Nikiforov, A., Remberg, G., Raverdino, V. 1989. Headspace-Analysis and Aroma Compounds of Austrian Hay-Blossoms (Flores Graminis, Graminis Flos) used in Aromatherapy. J. Ess. Oil Res., 2: 185-191, 1990. |
| Antiviral | |
| Barbituate-Synergist | |
| Bronchorelaxant | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. |
| CNS-Depressant | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidistat | |
| Carminative | |
| Culicide LC50=156-194 mg/l | |
| Cytotoxic | |
| Expectorant | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp. |
| FLavor FEMA 2-40 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Fungicide | Acta Botanica Sinica, 32: 49. |
| GABA-nergic | |
| Hypnotic | |
| Hypothermic | |
| Insecticide LC50=156-194 mg/l | |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Irritant | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Larvicide LC50=156-194 mg/l | |
| Mosquitofuge > Deet | |
| Motor-Depressant | Buchbauer et al, e.g. Buchbauer et al, 1993. Therapeutic properties of essential oils and fragrances. Chap. 12 in Teranishi, R., Buttery, R.G and Sugisawa, H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Perfumery | Merck 11th Edition |
| Pesticide | |
| Prooxidant | Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp. |
| Sedative ED=1-32 mg/kg | Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176) |
| Sedative 200 mg/kg ipr mus (1% as active as diazepam) | |
| Termitifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Trichomonicide LD100=600 ug/ml | |
| Tumor-Promoter | |

| | | | | | |
|---------|-------|----|-------|-------|--|
| MYRCENE | Shoot | -- | 280.0 | -0.02 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|---------|-------|----|-------|-------|--|

Activities (22)

ACE-Inhibitor 100 ug/ml

Aldose-Reductase-Inhibitor 100 ug/ml Okamura, K., Iwakami, S., Matsunaga, T. 1992. Biological Activity of Monoterpenes from Trees. Toyama-Ken Yakuji Kenkyusho Nenpo, (20): 95-101.

Allergenic

Analgesic Kauderer, B., Zamith, H., Paumgartten, F.J.R., and Speit, G. Evaluation of the Mutagenicity of B-Myrcene in Mammalian Cells In Vitro. Environmental and Molecular Mutagenesis 18: 28-34, 1991.

Antibacterial

Anticonvulsant

Antimutagenic Kauderer, B., Zamith, H., Paumgartten, F.J.R., and Speit, G. Evaluation of the Mutagenicity of B-Myrcene in Mammalian Cells In Vitro. Environmental and Molecular Mutagenesis 18: 28-34, 1991.

Antinitrosaminic

Antinociceptive 10-20 mg/kg ipr mus Rao, V.S.N., Menezes, A.M.S., Viana, G.S.B. 1990. Effect of myrcene on nociception in mice. J. Pharm. Pharmacol. 42: 877-878, 1990.

Antinociceptive 20-40 mg/kg scu mus Rao, V.S.N., Menezes, A.M.S., Viana, G.S.B. 1990. Effect of myrcene on nociception in mice. J. Pharm. Pharmacol. 42: 877-878, 1990.

Antioxidant Jim Duke's personal files.

Antispasmodic Jim Duke's personal files.

Chemopreventive Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

FLavor FEMA 0.5-9 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Fungicide Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp.

Hypothermic

Insectifuge

Irritant Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.

Myorelaxant 100-200 mg/kg

P450-2B1-Inhibitor IC50=0.14 uM

Perfumery Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Pesticide

| | | | | | |
|---------|-------|----|-------|-------|--|
| MYRCENE | Shoot | -- | 280.0 | -0.02 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|---------|-------|----|-------|-------|--|

Activities (22)

ACE-Inhibitor 100 ug/ml

Aldose-Reductase-Inhibitor 100 ug/ml Okamura, K., Iwakami, S., Matsunaga, T. 1992. Biological Activity of Monoterpenes from Trees. Toyama-Ken Yakuji Kenkyusho Nenpo, (20): 95-101.

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Analgesic Kauderer, B., Zamith, H., Paumgartten, F.J.R., and Speit, G. Evaluation of the Mutagenicity of B-Myrcene in Mammalian Cells In Vitro. Environmental and Molecular Mutagenesis 18: 28-34, 1991.

Antibacterial

Anticonvulsant

Antimutagenic Kauderer, B., Zamith, H., Paumgartten, F.J.R., and Speit, G. Evaluation of the Mutagenicity of B-Myrcene in Mammalian Cells In Vitro. Environmental and Molecular Mutagenesis 18: 28-34, 1991.

Antinitrosaminic

Antinociceptive 10-20 mg/kg ipr mus Rao, V.S.N., Menezes, A.M.S., Viana, G.S.B. 1990. Effect of myrcene on nociception in mice. J. Pharm. Pharmacol. 42: 877-878, 1990.

Antinociceptive 20-40 mg/kg scu mus Rao, V.S.N., Menezes, A.M.S., Viana, G.S.B. 1990. Effect of myrcene on nociception in mice. J. Pharm. Pharmacol. 42: 877-878, 1990.

Antioxidant Jim Duke's personal files.

Antispasmodic Jim Duke's personal files.

Chemopreventive Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

FLavor FEMA 0.5-9 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Fungicide Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp.

Hypothermic

Insectifuge

Irritant Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.

Myorelaxant 100-200 mg/kg

P450-2B1-Inhibitor IC50=0.14 uM

Perfumery Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Pesticide

| | | | | | |
|----------|-------|----|-----|-------|--|
| MYRTENAL | Shoot | -- | 8.0 | -0.32 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|----------|-------|----|-----|-------|--|

| Activities (5) | | | | | |
|--------------------------------|--|--|--|--|--|
| Antimalarial IC50=5-50 ug/ml | Rukunga, G. and Simons, A. J. 2006. The Potential of Plants as a Source of Antimalarial Agents - A Review. Africa Herbal Antimalaria Meeting. PlantaPhile Publications, Berlin. 72 pp. | | | | |
| Antiplasmodial IC50=5-50 ug/ml | Rukunga, G. and Simons, A. J. 2006. The Potential of Plants as a Source of Antimalarial Agents - A Review. Africa Herbal Antimalaria Meeting. PlantaPhile Publications, Berlin. 72 pp. | | | | |
| Herbicide | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Pesticide | | | | | |

| | | | | | |
|----------|-------|----|-----|-------|--|
| MYRTENAL | Shoot | -- | 8.0 | -0.32 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|----------|-------|----|-----|-------|--|

| Activities (5) | | | | | |
|--------------------------------|--|--|--|--|--|
| Antimalarial IC50=5-50 ug/ml | Rukunga, G. and Simons, A. J. 2006. The Potential of Plants as a Source of Antimalarial Agents - A Review. Africa Herbal Antimalaria Meeting. PlantaPhile Publications, Berlin. 72 pp. | | | | |
| Antiplasmodial IC50=5-50 ug/ml | Rukunga, G. and Simons, A. J. 2006. The Potential of Plants as a Source of Antimalarial Agents - A Review. Africa Herbal Antimalaria Meeting. PlantaPhile Publications, Berlin. 72 pp. | | | | |
| Herbicide | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Pesticide | | | | | |

| | | | | | |
|----------|-------|----|------|-------|--|
| MYRTENOL | Shoot | -- | 16.0 | -0.22 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|----------|-------|----|------|-------|--|

| Activities (2) | | | | | |
|--------------------------------|--|--|--|--|--|
| Antimalarial IC50=5-50 ug/ml | Rukunga, G. and Simons, A. J. 2006. The Potential of Plants as a Source of Antimalarial Agents - A Review. Africa Herbal Antimalaria Meeting. PlantaPhile Publications, Berlin. 72 pp. | | | | |
| Antiplasmodial IC50=5-50 ug/ml | Rukunga, G. and Simons, A. J. 2006. The Potential of Plants as a Source of Antimalarial Agents - A Review. Africa Herbal Antimalaria Meeting. PlantaPhile Publications, Berlin. 72 pp. | | | | |

| | | | | | |
|----------|-------|----|------|-------|--|
| MYRTENOL | Shoot | -- | 16.0 | -0.22 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|----------|-------|----|------|-------|--|

| Activities (2) | | | | | |
|--------------------------------|--|--|--|--|--|
| Antimalarial IC50=5-50 ug/ml | Rukunga, G. and Simons, A. J. 2006. The Potential of Plants as a Source of Antimalarial Agents - A Review. Africa Herbal Antimalaria Meeting. PlantaPhile Publications, Berlin. 72 pp. | | | | |
| Antiplasmodial IC50=5-50 ug/ml | Rukunga, G. and Simons, A. J. 2006. The Potential of Plants as a Source of Antimalarial Agents - A Review. Africa Herbal Antimalaria Meeting. PlantaPhile Publications, Berlin. 72 pp. | | | | |

| | | | | | |
|-------|-------|----|----|--|--|
| NERAL | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|-------|-------|----|----|--|--|

| Activities (4) | | | | | |
|--------------------------|---|--|--|--|--|
| Antibacterial | Iwu, M.M. 1993. Handbook of African Medicinal Plants. CRC Press, Boca Raton, FL 435 pp. | | | | |
| Antispasmodic | | | | | |
| Pesticide | | | | | |
| Termiticide LD100=5 mg/g | | | | | |

| | | | | | |
|-------|-------|----|-----|-------|--|
| NERAL | Shoot | -- | 5.0 | -0.56 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|-------|-------|----|-----|-------|--|

| Activities (4) | | | | | |
|--------------------------|---|--|--|--|--|
| Antibacterial | Iwu, M.M. 1993. Handbook of African Medicinal Plants. CRC Press, Boca Raton, FL 435 pp. | | | | |
| Antispasmodic | | | | | |
| Pesticide | | | | | |
| Termiticide LD100=5 mg/g | | | | | |

| | | | | | |
|-------|-------|----|------|-------|--|
| NEROL | Shoot | -- | 16.0 | -0.31 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|-------|-------|----|------|-------|--|

| Activities (10) | | | | | |
|-----------------------------------|--|--|--|--|--|
| Antibacterial | HerbalGram No. 17. | | | | |
| Antihelicobacter | | | | | |
| Antiseptic | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. | | | | |
| Antiulcer | | | | | |
| Estrogenic | | | | | |
| FLavor FEMA 1-20 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Perfumery | Merck 11th Edition | | | | |
| Pesticide | | | | | |
| Sedative | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. | | | | |
| Trichomonicide ED100=300 ug/ml | | | | | |

NEROL Shoot -- 16.0 -0.31 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

| Activities (10) | | | | | |
|-----------------------------------|--|--|--|--|--|
| Antibacterial | HerbalGram No. 17. | | | | |
| Antihelicobacter | | | | | |
| Antiseptic | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. | | | | |
| Antiulcer | | | | | |
| Estrogenic | | | | | |
| FLavor FEMA 1-20 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Perfumery | Merck 11th Edition | | | | |
| Pesticide | | | | | |
| Sedative | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. | | | | |
| Trichomonicide ED100=300 ug/ml | | | | | |

NERYL-ACETATE Shoot -- -- -0.43 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

| Activities (5) | | | | | |
|------------------|---|--|--|--|--|
| Antiflu | | | | | |
| Antiviral | | | | | |
| FLavor FEMA 1-15 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Pesticide | | | | | |

NERYL-ACETATE Shoot -- -- -0.43 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

| Activities (5) | | | | | |
|------------------|---|--|--|--|--|
| Antiflu | | | | | |
| Antiviral | | | | | |
| FLavor FEMA 1-15 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Pesticide | | | | | |

NERYL-BUTYRATE Shoot -- -- Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

NERYL-BUTYRATE Shoot -- -- Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

NERYLISOBUTYRATE Shoot -- -- Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

NERYLISOBUTYRATE Shoot -- -- Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

NERYLPROPIONATE Shoot -- -- Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

NERYLPROPIONATE Shoot -- -- Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

OCT-1-EN-3-OL Shoot -- 8.0 -0.45 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

| | | | | | |
|-----------------------|-------|----|------|-------|--|
| OCT-1-EN-3-OL | Shoot | -- | 8.0 | -0.45 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| OCT-1-EN-3-YL-ACETATE | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| OCT-1-EN-3-YL-ACETATE | Shoot | -- | 5.0 | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| P-CYMEN-8-OL | Shoot | -- | 8.0 | -0.15 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| P-CYMEN-8-OL | Shoot | -- | 8.0 | -0.15 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
| P-CYMENE | Shoot | -- | 65.0 | -0.45 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |

Activities (16)

| | |
|---|--|
| Analgesic | Martindale's 28th |
| Antiacetylcholinesterase IC40=1.2 mM | |
| Antibacillary | |
| Antibacterial | |
| Antiflu | |
| Antirheumatalgic | Martindale's 28th |
| Antiviral | |
| FLavor FEMA 12-250 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Fungicide | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Herbicide IC50=50 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Insectifuge | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| Irritant | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Laxative | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Pesticide | |
| Sedative | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Trichomonicide LD100=50 ug/ml | |

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|----------|-------|----|------|-------|--|
| P-CYMENE | Shoot | -- | 50.0 | -0.46 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|----------|-------|----|------|-------|--|

Activities (16)

| | |
|---|--|
| Analgesic | Martindale's 28th |
| Antiacetylcholinesterase IC40=1.2 mM | |
| Antibacillary | |
| Antibacterial | |
| Antiflu | |
| Antirheumatalgic | Martindale's 28th |
| Antiviral | |
| FLavor FEMA 12-250 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Fungicide | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Herbicide IC50=50 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Insectifuge | Blaschek, W., Hansel, R., Keller, K., Reichling, J., Rimpler, H., and Schneider, G. eds. 1998. Hager's Handbuch der Pharmazeutischen Praxis, Auflage Band 2 (A-K), 909 pp., (L-Z), 858 pp. Springer-Verlag, Berlin. |
| Irritant | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Laxative | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Pesticide | |
| Sedative | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Trichomonicide LD100=50 ug/ml | |

| | | | | | |
|-------------|-------|----|-----|-------|--|
| PINOCARVONE | Shoot | -- | 8.0 | -0.62 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|-------------|-------|----|-----|-------|--|

| Activities (1) | | | | | |
|------------------|---|----|-------|-------|--|
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| PINOCARVONE | Shoot | -- | 8.0 | -0.62 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| Activities (1) | | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| ROSE-OXIDE | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| ROSE-OXIDE | Shoot | -- | 5.0 | -1.0 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| SABINENE | Shoot | -- | 280.0 | 0.0 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| Activities (5) | | | | | |
| Antibacterial | | | | | |
| Antihelicobacter | | | | | |
| Antiseptic | | | | | |
| Antiulcer | | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| SABINENE | Shoot | -- | 280.0 | 0.0 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| Activities (5) | | | | | |
| Antibacterial | | | | | |
| Antihelicobacter | | | | | |
| Antiseptic | | | | | |
| Antiulcer | | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| SPATHULENOL | Shoot | -- | 190.0 | 0.66 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| SPATHULENOL | Shoot | -- | 190.0 | 0.66 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| T-CADINOL | Shoot | -- | 25.0 | 0.4 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| T-CADINOL | Shoot | -- | 35.0 | 0.97 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
| TERPINEN-4-OL | Shoot | -- | 105.0 | -0.12 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |

Activities (23)

| | |
|--|---|
| Allelopathic | Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands. |
| Antiacetylcholinesterase IC21-24=1.2 mM | |
| Antiacne | |
| Antiallergic | |
| Antiasthmatic | Chin. J. Tuber. Respir. Dis., 4:203, 1982. |
| Antibacterial | |
| Antioxidant | |
| Antiseptic | Flav. & Frag. J. 9: 129. |
| Antispasmodic | |
| Antitussive | Chin. J. Tuber. Respir. Dis. |
| Antiulcer | |
| Bacteriostatic | Chin. J. Tuber. Respir. Dis. |
| Diuretic 0.1 ml/rat | |
| Fungicide | |
| Herbicide IC50=200 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Herbicide IC50=22 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Insectifuge | |
| Irritant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Pesticide | |
| Renoirritant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Spermicide ED100=0.015 | |
| Vulnerary | Lawrence Review of Natural Products, Jan-91. |

TERPINEN-4-OL Shoot -- 105.0 -0.12 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

Activities (23)

| | |
|--|---|
| Allelopathic | Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands. |
| Antiacetylcholinesterase IC21-24=1.2 mM | |
| Antiacne | |
| Antiallergic | |
| Antiasthmatic | Chin. J. Tuber. Respir. Dis., 4:203, 1982. |
| Antibacterial | |
| Antioxidant | |
| Antiseptic | Flav. & Frag. J. 9: 129. |
| Antispasmodic | |
| Antitussive | Chin. J. Tuber. Respir. Dis. |
| Antiulcer | |
| Bacteriostatic | Chin. J. Tuber. Respir. Dis. |
| Diuretic 0.1 ml/rat | |
| Fungicide | |
| Herbicide IC50=200 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Herbicide IC50=22 uM | Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp. |
| Insectifuge | |
| Irritant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Nematicide MLC=1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Pesticide | |
| Renoirritant | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Spermicide ED100=0.015 | |
| Vulnerary | Lawrence Review of Natural Products, Jan-91. |

TERPINOLENE Shoot -- 5.0 -0.66 Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

Activities (9)

| | |
|-------------------|---|
| Allelochemic | |
| Antifeedant | |
| Antinitrosaminic | |
| Antioxidant | |
| Deodorant | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp. |
| FLavor FEMA 15-60 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | Keeler, R.F. and Tu, A.T. eds. 1991. <i>Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6)</i> Marcel Dekker, Inc. NY. 665 pp. |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Pesticide | |

TERPINOLENE Shoot -- -- Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

Activities (9)

| | |
|-------------------|---|
| Allelochemic | |
| Antifeedant | |
| Antinitrosaminic | |
| Antioxidant | |
| Deodorant | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp. |
| FLavor FEMA 15-60 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | Keeler, R.F. and Tu, A.T. eds. 1991. <i>Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6)</i> Marcel Dekker, Inc. NY. 665 pp. |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Pesticide | |

THYMOL Shoot -- -- Vila, R., et al. 1995. Composition and study of the variability of the essential oil of *Thymus funkii* Cousson. *Flav. & Fragr. J.* 10(6): 379-383.

Activities (71)

| | |
|-------------------------------------|--|
| Acaricide | |
| Allergenic | |
| Analgesic | Madaus, G. 1976. <i>Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3.</i> 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| Ancylostomicide | Madaus, G. 1976. <i>Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3.</i> 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| Anesthetic | Madaus, G. 1976. <i>Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3.</i> 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| Ankylostomacide | Madaus, G. 1976. <i>Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3.</i> 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| Anthelmintic | Williamson, E. M. and Evans, F. J., <i>Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed.,</i> Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |
| Antiacne | Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture.</i> Plenum Press, New York. 445 pp. |
| Antiaggregant IC50=0.75 | Tramil, 42: 511. |
| Antialzheimeran? | L. Gracza (1985) as cited by Buchbauer re antiacetylcholinesterase. |
| Antiarthritic | Madaus, G. 1976. <i>Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3.</i> 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| Antiatherosclerotic IC50=4 uM | |
| Antibacterial MIC=50-400 ug/ml | |
| Antibronchitic | Madaus, G. 1976. <i>Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3.</i> 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| Anticariogenic MIC=200-400 ug/ml | |
| Anticholinesterase | L. Gracza (1985) as cited by Buchbauer re antiacetylcholinesterase. |
| Antihalitosis | American Health, 12(4): 17, 1993. |
| Antiherpetic | Martindale's 28th |
| Antiinflammatory (=indomethacin) | |
| Antileptic | Madaus, G. 1976. <i>Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3.</i> 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| Antimelanomic IC50=120 uM/l | |
| Antineuritic | |
| Antioxidant 100 ppm | Martindale's 28th |
| Antioxidant (LDL) IC50=4 uM | |
| Antiperiodontic MIC=50-200 ug/ml | |
| Anti plaque MIC=39-625 ug/ml | Osawa, K., Matsumoto, T., Maruyama, T., Takiguchi, T., Okuda, K., and Takazoe, I., <i>Studies of the antibacterial activity of plant extracts and their constituents against periodontopathic bacteria,</i> <i>Bull Tokyo Dent. Coll.,</i> 31 (1), 1990, 17-21 |

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|---|--|
| Antiradicular EC=60 | Jimenez, J., Navarro, M.C., Montilla, M.P., Martin, A. and Martinez, A. 1993. Thymus zygis Oil: Its Effects on CCl4-Induced Hepatotoxicity and Free Radical Scavenger Activity. JE05: 153-8. |
| Antirheumatic | Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |
| Antisalmonella | |
| Antiseptic 20 x phenol | Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176) |
| Antispasmodic | |
| Antistaphylococcic | |
| Antistreptococcic MIC=200-400 ug/ml | |
| Antitrichinosis 5% | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| Antitussive | Iwu, M.M. 1993. Handbook of African Medicinal Plants. CRC Press, Boca Raton, FL 435 pp. |
| Ataxigenic | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Candidicide 100 ug/ml (>Nystatin) | |
| Carminative | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Counterirritant | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Culicide LC50=36-49 mg/l | |
| Cyclooxygenase- inhibitor (=indomethacin) | |
| Dentifrice | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Deodorant | Martindale's 28th |
| Dermatitigenic | |
| Enterorelaxant | J. Aromatherapy 4: 22. |
| Enterotoxic | Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp. |
| Expectorant | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| FLavor FEMA 2-100 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Fungicide | Merck 11th Edition |
| Gastroirritant | Martindale's 29th |
| Gram(+)-icide MIC=200- 400 ug/ml | |
| Gram(-)-icide MIC=50- 200 ug/ml | |
| Insecticide LC50=36-49 mg/l | |
| Insecticide 0.22 uM/fly | |
| Insectifuge | |
| Irritant | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Larvicide 10 ppm | Berenbaum, M. R., The natives knew, Chemtech, (May), 1990, 275-279. |
| Larvicide 58 ppm | |
| Larvicide LC50=36-49 mg/l | |
| Molluscicide | |
| Myorelaxant | J. Aromatherapy 4: 22. |
| Nematicide MLC=0.1 mg/ml | Shoyakugaku Zasshi, 44: 183. |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| Pesticide | |
| Sedative | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Sprout-Inhibitor | Duke, J.A.. Personal Communication. |
| Tracheorelaxant | |
| Trichomonicide LD100=25 ug/ml | |
| Urinary-Antiseptic | Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |
| Varroacide | |
| Vermicide | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |

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|--------|-------|----|-----|-------|--|
| THYMOL | Shoot | -- | 5.0 | -0.33 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|--------|-------|----|-----|-------|--|

Activities (71)

| | |
|-----------------|--|
| Acaricide | |
| Allergenic | |
| Analgesic | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| Ancylostomicide | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| Anesthetic | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| Ankylostomacide | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |

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| Anthelmintic | Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |
| Antiacne | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Antiaggregant IC50=0.75 | Tramil, 42: 511. |
| Antialzheimeran? | L. Gracza (1985) as cited by Buchbauer re antiacetylcholinesterase. |
| Antiarthritic | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| Antiatherosclerotic IC50=4 uM | |
| Antibacterial MIC=50-400 ug/ml | |
| Antibronchitic | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| Anticariogenic MIC=200-400 ug/ml | |
| Anticholinesterase | L. Gracza (1985) as cited by Buchbauer re antiacetylcholinesterase. |
| Antihalitosis | American Health, 12(4): 17, 1993. |
| Antiherpetic | Martindale's 28th |
| Antiinflammatory (=indomethacin) | |
| Antileptic | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| Antimelanomic IC50=120 uM/l | |
| Antineuritic | |
| Antioxidant 100 ppm | Martindale's 28th |
| Antioxidant (LDL) IC50=4 uM | |
| Antiperiodontic MIC=50-200 ug/ml | |
| Antiplaque MIC=39-625 ug/ml | Osawa, K., Matsumoto, T., Maruyama, T., Takiguchi, T., Okuda, K., and Takazoe, I., Studies of the antibacterial activity of plant extracts and their constituents against periodontopathic bacteria, Bull Tokyo Dent. Coll., 31 (1), 1990, 17-21 |
| Antiradicular EC=60 | Jimenez, J., Navarro, M.C., Montilla, M.P., Martin, A. and Martinez, A. 1993. Thymus zygis Oil: Its Effects on CCl4-Induced Hepatotoxicity and Free Radical Scavenger Activity. JEO5: 153-8. |
| Antirheumatic | Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |
| Antisalmonella | |
| Antiseptic 20 x phenol | Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176) |
| Antispasmodic | |
| Antistaphylococcic | |
| Antistreptococcic MIC=200-400 ug/ml | |
| Antitrichinosis 5% | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. |
| Antitussive | Iwu, M.M. 1993. Handbook of African Medicinal Plants. CRC Press, Boca Raton, FL 435 pp. |
| Ataxigenic | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. |
| Candidicide 100 ug/ml (>Nystatin) | |
| Carminative | Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. J. Pharm. Pharmacol. 46: 14-18, 1994. |
| Counterirritant | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Culicide LC50=36-49 mg/l | |
| Cyclooxygenase-Inhibitor (=indomethacin) | |
| Dentifrice | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Deodorant | Martindale's 28th |
| Dermatitigenic | |
| Enterorelaxant | J. Aromatherapy 4: 22. |
| Enterotoxic | Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp. |
| Expectorant | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| FLavor FEMA 2-100 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungicide | Merck 11th Edition |
| Gastroirritant | Martindale's 29th |
| Gram(+)icide MIC=200-400 ug/ml | |
| Gram(-)icide MIC=50-200 ug/ml | |
| Insecticide LC50=36-49 mg/l | |
| Insecticide 0.22 uM/fly | |
| Insectifuge | |
| Irritant | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Larvicide 10 ppm | Berenbaum, M. R., The natives knew, Chemtech, (May), 1990, 275-279. |
| Larvicide 58 ppm | |
| Larvicide LC50=36-49 mg/l | |

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| Molluscicide | | | | | |
| Myorelaxant | J. Aromatherapy 4: 22. | | | | |
| Nematicide MLC=0.1 mg/ml | Shoyakugaku Zasshi, 44: 183. | | | | |
| Perfumery | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | |
| Pesticide | | | | | |
| Sedative | Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253. | | | | |
| Sprout-Inhibitor | Duke, J.A.. Personal Communication. | | | | |
| Tracheorelaxant | | | | | |
| Trichomonicide LD100=25 ug/ml | | | | | |
| Urinary-Antiseptic | Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. | | | | |
| Varroacide | | | | | |
| Vermicide | Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus. | | | | |

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|----------------------|-------|----|----|--|--|
| TRANS-BETA-FARNESENE | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|----------------------|-------|----|----|--|--|

Activities (2)

| | |
|-----------------------|--|
| Insectifuge Pesticide | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
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|----------------------|-------|----|----|------|--|
| TRANS-BETA-FARNESENE | Shoot | -- | -- | -1.0 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|----------------------|-------|----|----|------|--|

Activities (2)

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|-----------------------|--|
| Insectifuge Pesticide | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
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|--------------------|-------|----|----|--|--|
| TRANS-BETA-OCIMENE | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|--------------------|-------|----|----|--|--|

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|--------------------|-------|----|-----|-------|--|
| TRANS-BETA-OCIMENE | Shoot | -- | 5.0 | -0.45 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|--------------------|-------|----|-----|-------|--|

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|---------------|-------|----|-----|-------|--|
| TRANS-CARVEOL | Shoot | -- | 8.0 | -0.41 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
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Activities (1)

Antiasthmatic

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|---------------|-------|----|-----|-------|--|
| TRANS-CARVEOL | Shoot | -- | 8.0 | -0.41 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|---------------|-------|----|-----|-------|--|

Activities (1)

Antiasthmatic

| | | | | | |
|-------------------|-------|----|----|--|--|
| TRANS-PINOCARVEOL | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|-------------------|-------|----|----|--|--|

Activities (2)

| | |
|--------------------------------|--|
| Antimalarial IC50=5-50 ug/ml | Rukunga, G. and Simons, A. J. 2006. The Potential of Plants as a Source of Antimalarial Agents - A Review. Africa Herbal Antimalaria Meeting. PlantaPhile Publications, Berlin. 72 pp. |
| Antiplasmodial IC50=5-50 ug/ml | Rukunga, G. and Simons, A. J. 2006. The Potential of Plants as a Source of Antimalarial Agents - A Review. Africa Herbal Antimalaria Meeting. PlantaPhile Publications, Berlin. 72 pp. |

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|-------------------|-------|----|-----|-------|--|
| TRANS-PINOCARVEOL | Shoot | -- | 5.0 | -0.21 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|-------------------|-------|----|-----|-------|--|

Activities (2)

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|--------------------------------|--|
| Antimalarial IC50=5-50 ug/ml | Rukunga, G. and Simons, A. J. 2006. The Potential of Plants as a Source of Antimalarial Agents - A Review. Africa Herbal Antimalaria Meeting. PlantaPhile Publications, Berlin. 72 pp. |
| Antiplasmodial IC50=5-50 ug/ml | Rukunga, G. and Simons, A. J. 2006. The Potential of Plants as a Source of Antimalarial Agents - A Review. Africa Herbal Antimalaria Meeting. PlantaPhile Publications, Berlin. 72 pp. |

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|------------------------|-------|----|------|-------|--|
| TRANS-SABINENE-HYDRATE | Shoot | -- | 90.0 | -0.09 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|------------------------|-------|----|------|-------|--|

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|------------------------|-------|----|------|-------|--|
| TRANS-SABINENE-HYDRATE | Shoot | -- | 90.0 | -0.09 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383. |
|------------------------|-------|----|------|-------|--|

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|--------------|-------|----|------|------|--|
| TRICYCLENONE | Shoot | -- | 24.0 | -0.2 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|--------------|-------|----|------|------|--|

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|--------------|-------|----|------|------|--|
| TRICYCLENONE | Shoot | -- | 24.0 | -0.2 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|--------------|-------|----|------|------|--|

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|-----------|-------|----|----|--|--|
| VERBENONE | Shoot | -- | -- | | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
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Activities (5)

Allelochemic

Coleopterifuge

Insectifuge

Perfumery

Pesticide

Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry

| | | | | | |
|-----------|-------|----|-----|-------|--|
| VERBENONE | Shoot | -- | 5.0 | -0.25 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
|-----------|-------|----|-----|-------|--|

Activities (5)

Allelochemic

Coleopterifuge

Insectifuge

Perfumery

Pesticide

Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry

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|--------------|-------|----|-----|-------|--|
| VIRIDIFLOROL | Shoot | -- | 8.0 | -0.88 | Vila, R., et al. 1995. Composition and study of the variability of the essential oil of <i>Thymus funkii</i> Cousson. <i>Flav. & Fragr. J.</i> 10(6): 379-383. |
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Activities (1)

Antiacetylcholinesterase IC50=25 ug/ml

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