List of Activities

Ocimum canum (Lamiaceae)

Common name(s)

Hoary Basil

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.

Activity	Reference
(-)-Chronotropic	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.

Chemicals (1)

1,8-CINEOLE 87 nl/ml

(-)-Inotropic	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.

Chemicals (1)

1,8-CINEOLE 87 nl/ml

Acaricide

Chemicals (2)

1,8-CINEOLE LC100=6 uM

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

ACE-Inhibitor

Chemicals (1)

MYRCENE 100 ug/ml

Aldose-Reductase-Inhibitor

Chemicals (4)

CARYOPHYLLENE

DELTA-CADINENE

MYRCENE 100 ug/ml

NEVADENSIN 10 uM

Allelochemic

Chemicals (1)

ALPHA-PINENE

Allelopathic

Chemicals (3)

1,8-CINEOLE

CAMPHENE

CAMPHOR

Allergenic

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Chemicals (8)

1,8-CINEOLE
ALPHA-PINENE
CARYOPHYLLENE
CITRAL
EUGENOL
GERANIOL
GERANYL-ACETATE
MYRCENE

Analgesic — Merck 11th Edition

Chemicals (6)

CAMPHOR
CARYOPHYLLENE
EUGENOL
MYRCENE
TERPINEOL 10-100 ug/ml
URSOLIC-ACID

Androgenic

Chemicals (1)

BETA-SITOSTEROL

Anesthetic

Chemicals (5)

1,8-CINEOLE
CAMPHOR
EUGENOL 200-400
METHYL-EUGENOL
TERPINEOL 10-100 ug/ml

Angiogenic

Chemicals (1)

BETA-SITOSTEROL

Anorexic — Martindale's 28th

Chemicals (1)

BETA-SITOSTEROL

Anthelmintic — Madaus, G. 1976. Lehrbuch der Biologischen Hilfmittel. Vol,. 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildescheim. Reprint of 1938 Madaus.

Chemicals (3)

1,8-CINEOLE
BETULINIC-ACID
GERANIOL

Antiacetylcholinesterase

Chemicals (1)

1,8-CINEOLE IC50=41 ug/ml

Antiacne — Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.

Chemicals (4)

ALPHA-PINENE
CAMPHOR
CARYOPHYLLENE
DELTA-CADINENE

Antiadenomic	Merck 11th Edition

Chemicals (1)

BETA-SITOSTEROL

Antiaggregant	Phytotherapy Research, 4: 93.

Chemicals (2)

EUGENOL IC50=0.3 uM

EUGENYL-ACETATE ED=15 uM

Antiallergenic

Chemicals (2)

CITRAL

TERPINEOL

Antiallergic	J. Food Hyg. Soc. Jap. 33(6): 569.

Chemicals (2)

1,8-CINEOLE

CITRAL

Antialzheimeran	Ringbom, T., Seguar, L., Noreen, Y., Perera, P., Bohlin, L. 1998. Ursolic Acid from Plantago major, a Selective Inhibitor of Cyclooxygenase-2 Catalyzed Prostaglandin Biosynthesis. J. Nat. Prod., 61(10): 1212-1215.

Chemicals (1)

URSOLIC-ACID

Antianaphylactic

Chemicals (1)

CITRAL

Antiandrogenic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.

Chemicals (1)

BETA-SITOSTEROL

Antiarachidonate

Chemicals (1)

EUGENOL

Antiarrhythmic

Chemicals (1)

URSOLIC-ACID

Antiarthritic	Planta Medica, 57: A56, 1991.

Chemicals (1)

URSOLIC-ACID

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

Chemicals (2)

CARYOPHYLLENE

TERPINEOL

Antibacterial

Chemicals (13)

1,8-CINEOLE 50 ppm
ALPHA-PINENE
BETA-SITOSTEROL
BETULINIC-ACID
CARYOPHYLLENE
CITRAL
DELTA-CADINENE MIC800 ug/ml
EUGENOL 500 ppm
GERANIOL MIC=400 ug/ml
METHYL-EUGENOL
MYRCENE
TERPINEOL
URSOLIC-ACID

Antibronchitic

Chemicals (1)

1,8-CINEOLE

Anticancer

Chemicals (4)

BETULINIC-ACID
CITRAL
TERPINEOL
URSOLIC-ACID

Anticancer (Breast) — Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from Vaccinium myrtillus (Bilberry) Fruits and Cell Cultures. Plant Sci., 131(1): 95-103.

Chemicals (1)

BETA-SITOSTEROL

Anticancer (Cervix)

Chemicals (1)

BETA-SITOSTEROL

Anticancer (Colon) — Ringbom, T., Seguar, L., Noreen, Y., Perera, P., Bohlin, L. 1998. Ursolic Acid from Plantago major, a Selective Inhibitor of Cyclooxygenase-2 Catalyzed Prostaglandin Biosynthesis. J. Nat. Prod., 61(10): 1212-1215.

Chemicals (1)

URSOLIC-ACID

Anticancer (Lung)

Chemicals (1)

BETA-SITOSTEROL

Anticancer (Pancreas)

Chemicals (1)

GERANIOL IC50=265 uM

Anticarcinomic — 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.

Chemicals (2)

BETULINIC-ACID
URSOLIC-ACID

Anticariogenic — 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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Chemicals (5)

1,8-CINEOLE
CARYOPHYLLENE MIC=>1,600 ug/ml
DELTA-CADINENE MIC800 ug/ml
GERANIOL MIC=400 ug/ml
URSOLIC-ACID

Anticatarrh — Martindale's 29th

Chemicals (1)

1,8-CINEOLE

Anticholestatic — Shukla, B., Visen, P.K.S., Patnaik, G.K., Tripathi, S.C., Srimal, R.C., Dayal, R., and Dobhal, P.C. Hepatoprotective Activity in the Rat of Ursolic Acid Isolated from Eucalyptus Hybrid. Phytotherapy Research 6: 74-79, 1992.

Chemicals (1)

URSOLIC-ACID 28-100 mg/kg orl

Anticholinesterase

Chemicals (1)

1,8-CINEOLE IC50=50-70

Anticomplement — 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.

Chemicals (1)

URSOLIC-ACID IC100 0.1 mM/l gpg

Anticonvulsant

Chemicals (3)

EUGENOL
METHYL-EUGENOL
MYRCENE

Antidermatitic

Chemicals (1)

CARYOPHYLLENE

Antidiabetic — Chemical Constituents of Oriental Herbs (3 diff. books)

Chemicals (1)

URSOLIC-ACID

Antidiarrheic — Wealth of India.

Chemicals (1)

CAMPHOR 500 ug/ml

Antidote (Strychnine)

Chemicals (1)

METHYL-EUGENOL

Antidysenteric — Wealth of India.

Chemicals (1)

CAMPHOR 500 ug/ml

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

Chemicals (1)

URSOLIC-ACID

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Antiedemic

Chemicals (5)

BETA-SITOSTEROL IC54=320 mg/kg orl
BETULINIC-ACID
CARYOPHYLLENE
EUGENOL 100
URSOLIC-ACID

Antiemetic — Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.

Chemicals (1)

CAMPHOR 100-200 mg man orl

Antiescherichic

Chemicals (1)

URSOLIC-ACID

Antiestrogenic — Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.

Chemicals (2)

BETA-SITOSTEROL
EUGENOL

Antifatigue

Chemicals (1)

1,8-CINEOLE

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

Chemicals (6)

ALPHA-PINENE
BETA-SITOSTEROL
CAMPHOR IC50=5,000 ppm diet
CARYOPHYLLENE 500 ppm
EUGENOL
METHYL-EUGENOL

Antifertility — Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.

Chemicals (1)

BETA-SITOSTEROL

Antifibrosarcomic

Chemicals (1)

URSOLIC-ACID IC80=10 uM

Antifibrositic — Martindale's 28th

Chemicals (1)

CAMPHOR

Antiflu — Economic & Medicinal Plant Research, 5: 195.

Chemicals (1)

ALPHA-PINENE

Antigenotoxic

Chemicals (1)

EUGENOL 50-500 mg/kg orl mus

Antigonadotrophic — Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.

Chemicals (1)

BETA-SITOSTEROL

Antihalitosic — American Health, 12(4): 17, 1993.

Chemicals (1)

1,8-CINEOLE

Antihelicobacter

Chemicals (1)

CITRAL

Antihepatotoxic — Shukla, B., Visen, P.K.S., Patnaik, G.K., Tripathi, S.C., Srimal, R.C., Dayal, R., and Dobhal, P.C. Hepatoprotective Activity in the Rat of Ursolic Acid Isolated from Eucalyptus Hybrid. Phytotherapy Research 6: 74-79, 1992.

Chemicals (1)

URSOLIC-ACID 5-20 mg/kg ipr

Antiherpetic

Chemicals (2)

CITRAL

EUGENOL IC50=16.2-25.6 ug/ml

Antihistaminic — Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.

Chemicals (2)

CITRAL

URSOLIC-ACID

AntiHIV

Chemicals (2)

BETULINIC-ACID EC50=2.0 ug/ml

URSOLIC-ACID EC50=2.0 ug/ml

Antihyperlipidemic

Chemicals (1)

URSOLIC-ACID

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

Chemicals (1)

BETA-SITOSTEROL

Antiinflammatory

Chemicals (10)

1,8-CINEOLE

ALPHA-PINENE 500 mg/kg

BETA-SITOSTEROL

BETULINIC-ACID

CARYOPHYLLENE IC50=100 uM

CITRAL

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

EUGENYL-ACETATE

NEVADENSIN 75 mg/kg

URSOLIC-ACID 1/3 indomethacin

Antikeratotic

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Chemicals (1)

EUGENOL IC50=16.2-25.6 ug/ml

Antilaryngitic

Chemicals (1)

1,8-CINEOLE

Antileishmanic

Chemicals (3)

CARYOPHYLLENE

CITRAL

URSOLIC-ACID ED50=20 uM

Antileukemic

Chemicals (3)

BETA-SITOSTEROL

BETULINIC-ACID

URSOLIC-ACID IC50=2.5-17.8 ug/ml

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

Chemicals (1)

CAMPHENE

Antilymphomic

Chemicals (2)

BETA-SITOSTEROL

URSOLIC-ACID

Antimalarial

Chemicals (3)

BETULINIC-ACID IC50=19-26 ug/ml

HUMULENE IC50=86 ug/ml

URSOLIC-ACID IC50=28-37 ug/ml

Antimelanomic New York Times, 3/28/95.

Chemicals (2)

BETULINIC-ACID

GERANIOL IC50=150 uM/l

Antimetastatic

Chemicals (1)

URSOLIC-ACID IC80=10 uM

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

Chemicals (1)

EUGENOL

Antimutagenic

Chemicals (4)

BETA-SITOSTEROL 250 ug/ml

EUGENOL

MYRCENE

URSOLIC-ACID IC57-80=80 mg/kg

Antinephritic

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Chemicals (1)

URSOLIC-ACID IC50=6-7.5 uM

Antineuralgic — Martindale's 28th

Chemicals (1)

CAMPHOR

Antinitrosaminic

Chemicals (1)

MYRCENE

Antinitrosating

Chemicals (1)

EUGENOL

Antinociceptive

Chemicals (3)

1,8-CINEOLE
BETULINIC-ACID
MYRCENE 10-20 mg/kg ipr mus

Antiobesity? — Internat. J. Oriental Med. 16: 4.

Chemicals (1)

URSOLIC-ACID

Antionychyotic — Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp.

Chemicals (1)

CARYOPHYLLENE

Antiophidic — Economic & Medicinal Plant Research, 5: 363.

Chemicals (1)

BETA-SITOSTEROL 2.3 mg mus

Antioxidant

Chemicals (7)

BETA-SITOSTEROL IC44=10 uM
CAMPHENE
CITRAL
EUGENOL IC65=30 ppm
METHYL-EUGENOL EC50=100 ul/l
MYRCENE
URSOLIC-ACID IC50=10 uM

Antiperoxidant

Chemicals (1)

URSOLIC-ACID IC35=200 ug/ml

Antipharyngitic

Chemicals (1)

1,8-CINEOLE

Antiplaque

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Chemicals (1)

1,8-CINEOLE

Antiplasmodial

Chemicals (3)

BETULINIC-ACID IC50=19-26 ug/ml
HUMULENE IC50=86 ug/ml
URSOLIC-ACID IC50=28-37 ug/ml

Antipneumonic

Chemicals (1)

ALPHA-PINENE

Antiprogestational — Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.

Chemicals (1)

BETA-SITOSTEROL

Antiproliferant — Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY.

Chemicals (2)

CARYOPHYLLENE
TERPINEOL

Antiproliferative

Chemicals (1)

URSOLIC-ACID IC50=15-20 uM

Antiprostaglandin

Chemicals (3)

BETA-SITOSTEROL 30 mg/day/12 wks
EUGENOL 11 uM
EUGENYL-ACETATE ED50=3 uM

Antiprostatadenomic — Merck 11th Edition

Chemicals (1)

BETA-SITOSTEROL

Antiprostatitic

Chemicals (1)

BETA-SITOSTEROL 10-20 mg 3 x/day/orl man

Antipruritic — Merck 11th Edition

Chemicals (1)

CAMPHOR

Antipyretic — Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.

Chemicals (2)

BETA-SITOSTEROL
EUGENOL 3 ml/man/day

Antiradicular

Chemicals (2)

EUGENOL EC50=2 ul/l
METHYL-EUGENOL EC50=100 ul/l

Antirheumatic

Chemicals (1)

1,8-CINEOLE

Antirhinitic

Chemicals (1)

1,8-CINEOLE

Antisalmonella

Chemicals (2)

EUGENOL MIC=400 ug/ml
GERANIOL MIC=400 ug/ml

Antisecretory

Chemicals (1)

D-GLUCOSE

Antiseptic

Merck 11th Edition

Chemicals (8)

1,8-CINEOLE
ALPHA-PINENE
CAMPHOR
CITRAL 5.2 x phenol
EUGENOL 3 ml/man/day
GERANIOL 7 x phenol
METHYL-EUGENOL
TERPINEOL

Antishock

Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.

Chemicals (1)

CITRAL

Antisinusitic

Chemicals (1)

1,8-CINEOLE

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.

Chemicals (10)

1,8-CINEOLE
ALPHA-PINENE
CAMPHOR ED50=0.075 mg/ml
CARYOPHYLLENE
CITRAL
EUGENOL
EUGENYL-ACETATE
GERANIOL
MYRCENE
TERPINEOL

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,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.

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Chemicals (5)

1,8-CINEOLE 50 ppm
ALPHA-PINENE
CARYOPHYLLENE
EUGENOL
URSOLIC-ACID

Antistreptococcic

Chemicals (2)

CARYOPHYLLENE
DELTA-CADINENE

AntiTGF-beta

Chemicals (1)

URSOLIC-ACID IC50=6-7.5 uM

Antithromboxane — Lawrence Review of Natural Products, Jul-87.

Chemicals (2)

EUGENOL
URSOLIC-ACID IC50=50 uM

AntiTNF

Chemicals (1)

EUGENOL

Antitrypanosomic

Chemicals (1)

URSOLIC-ACID

Antitubercular

Chemicals (2)

GERANIOL MIC=64 ug/ml
NEVADENSIN 0.2 mg/ml

Antitumor — Cancer Research, 54: 701, 1994.

Chemicals (6)

BETULINIC-ACID
CARYOPHYLLENE
CITRAL
EUGENOL
GERANIOL
URSOLIC-ACID

Antitumor (brain) — 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.

Chemicals (1)

URSOLIC-ACID

Antitumor (Breast)

Chemicals (2)

BETA-SITOSTEROL
URSOLIC-ACID 0.5% diet

Antitumor (Cervix) — 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.

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Chemicals (2)

BETA-SITOSTEROL
URSOLIC-ACID

Antitumor (Colon)

Chemicals (2)

CITRAL
URSOLIC-ACID

Antitumor (Liver)

Chemicals (1)

CITRAL

Antitumor (Lung)

Chemicals (2)

BETA-SITOSTEROL
URSOLIC-ACID

Antitumor (Ovary) 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.

Chemicals (1)

URSOLIC-ACID

Antitumor (Pancreas)

Chemicals (1)

GERANIOL IC50=265 uM

Antitumor (Skin)

Chemicals (1)

CITRAL

Antitumor (Stomach)

Chemicals (1)

URSOLIC-ACID IC50=15-20 uM

Antitumor-Promoter Planta Medica, 57: A56, 1991.

Chemicals (1)

URSOLIC-ACID

Antitussive Advance in Chinese Medicinal Materials Research. 1985. Eds. H. M. Chang, H. W. Yeung, W. -W. Tso and A. Koo. World Scientific Publishing Co., Philadelphia Pa., page 200.

Chemicals (3)

1,8-CINEOLE
NEVADENSIN
TERPINEOL

Antiulcer Taylor, Leslie. 2005. The Healing Power of Rainforest Herbs. SquareOne Publisher, Garden City Park, NY. 519 pp.

Chemicals (5)

1,8-CINEOLE
CARYOPHYLLENE
CITRAL
EUGENOL
URSOLIC-ACID

Antiviral

Chemicals (6)

ALPHA-PINENE
BETA-SITOSTEROL
BETULINIC-ACID 14.8 uM
CITRAL
EUGENOL IC50=16.2-25.6 ug/ml
URSOLIC-ACID IC85=18 ug/ml

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

Chemicals (1)

EUGENOL

Apoptotic

Chemicals (3)

BETA-SITOSTEROL
BETULINIC-ACID
CITRAL

Aromatase-Inhibitor

Chemicals (1)

URSOLIC-ACID

Artemicide — Jung, J.H., Pummangura, S., Chaichantipyuth, c., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of Melodorum fruticosum. Phytochemistry. 29(5): 1667-1670. 1990.

Chemicals (1)

BETA-SITOSTEROL LC50=110 ppm

Ascaricide — Madaus, G. 1976. Lehrbuch der Biologischen Hilfmittel. Vol,. 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildescheim. Reprint of 1938 Madaus.

Chemicals (1)

GERANIOL

Barbituate-Synergist

Chemicals (1)

CITRAL

Beta-Blocker

Chemicals (1)

URSOLIC-ACID

Beta-Glucuronidase-Inhibitor

Chemicals (1)

URSOLIC-ACID ~100 mg/kg

Bronchorelaxant — Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.

Chemicals (1)

CITRAL

Calcium-Antagonist

Chemicals (3)

CITRAL
EUGENOL IC50=224 uM
METHYL-CHAVICOL IC50=258 uM

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

Chemicals (8)

ALPHA-PINENE
BETA-SITOSTEROL
CAMPHOR
CITRAL
EUGENOL
GERANIOL
METHYL-EUGENOL
URSOLIC-ACID

Candidicide

Chemicals (6)

1,8-CINEOLE
BETA-SITOSTEROL
CARYOPHYLLENE
EUGENOL
GERANIOL
URSOLIC-ACID

Carcinogenic	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.

Chemicals (3)

1,8-CINEOLE
CITRAL
METHYL-EUGENOL

Carcinogenic?	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.

Chemicals (1)

EUGENOL

Cardioprotective

Chemicals (1)

URSOLIC-ACID

Cardiotonic

Chemicals (1)

URSOLIC-ACID

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.

Chemicals (2)

CAMPHOR
EUGENOL

Caspase-3-Inducer

Chemicals (1)

CITRAL

Caspase-8-Inducer

Chemicals (1)

BETA-SITOSTEROL

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

Chemicals (2)

CITRAL

MYRCENE

Cholagogue

Chemicals (1)

TERPINEOL

Choleretic — Shukla, B., Visen, P.K.S., Patnaik, G.K., Tripathi, S.C., Srimal, R.C., Dayal, R., and Dobhal, P.C. Hepatoprotective Activity in the Rat of Ursolic Acid Isolated from Eucalyptus Hybrid. Phytotherapy Research 6: 74-79, 1992.

Chemicals (3)

1,8-CINEOLE

EUGENOL

URSOLIC-ACID 5-20 mg/kg orl

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

Chemicals (2)

EUGENOL

URSOLIC-ACID

CNS-Stimulant

Chemicals (3)

1,8-CINEOLE

CAMPHOR

GERANIOL

Coleoptophile

Chemicals (1)

ALPHA-PINENE

Convulsant — 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 Benficent Nature. The Risk of Herbal Preparations. Anns. Intern. Med. 117(2):165-6; Huxtable, R.

Chemicals (2)

1,8-CINEOLE

CAMPHOR

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

Chemicals (1)

CAMPHOR

Counterirritant — Martindale's 29th

Chemicals (2)

1,8-CINEOLE

CAMPHOR

COX-1-Inhibitor

Chemicals (1)

EUGENOL IC97=1,000 uM

COX-2-Inhibitor

Chemicals (2)

EUGENOL IC>97=1,000 uM

URSOLIC-ACID IC50=130 uM/

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Culicide

Chemicals (1)

TERPINEOL LC50=156-194 mg/l

Cyclooxygenase-Inhibitor

Ringbom, T., Seguar, L., Noreen, Y., Perera, P., Bohlin, L. 1998. Ursolic Acid from Plantago major, a Selective Inhibitor of Cyclooxygenase-2 Catalyzed Prostaglandin Biosynthesis. J. Nat. Prod., 61(10): 1212-1215.

Chemicals (1)

URSOLIC-ACID

Cytochrome-P450-Inducer

Chemicals (2)

1,8-CINEOLE

DELTA-CADINENE

Cytochrome-P450-Inhibitor

Pizzorno, J. 1998. Total Wellness. Prima Health, a division of Prima.

Chemicals (1)

EUGENOL

Cytotoxic

Chemicals (4)

BETULINIC-ACID 50-100 ppm

CITRAL

EUGENOL 25 ug/ml

URSOLIC-ACID 50 ppm

Decongestant

Chemicals (2)

1,8-CINEOLE

CAMPHOR

Degranulant

Chemicals (1)

1,8-CINEOLE 0.3 ul/ml

Deliriant

Merck 11th Edition

Chemicals (1)

CAMPHOR

Dentifrice

Martindale's 29th

Chemicals (1)

1,8-CINEOLE

Dermatitigenic

Chemicals (1)

EUGENOL

Diuretic

Chemicals (1)

URSOLIC-ACID

DNA-Binder

Chemicals (1)

METHYL-CHAVICOL

Ecbolic

Chemicals (1)

CAMPHOR

Edemagenic

Chemicals (1)

1,8-CINEOLE inj

Elastase-Inhibitor

Chemicals (1)

URSOLIC-ACID IC50=~15 uM

Embryotoxic

Chemicals (1)

GERANIOL

Emetic — Lawrence Review of Natural Products, Sep-97.

Chemicals (2)

CAMPHOR

GERANIOL 3 x ipecac

Enterorelaxant — J. Aromatherapy 4: 22.

Chemicals (1)

EUGENOL

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

Chemicals (1)

CAMPHOR

Estrogenic

Chemicals (2)

BETA-SITOSTEROL

CITRAL

Expectorant

Chemicals (8)

1,8-CINEOLE

ALPHA-PINENE

CAMPHENE

CAMPHOR

CITRAL

GERANIOL

NEVADENSIN

TERPINEOL

Febrifuge — Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.

Chemicals (1)

BETA-SITOSTEROL

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

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Chemicals (12)

1,8-CINEOLE FEMA 1-200
ALPHA-PINENE FEMA 15-150
CAMPHENE FEMA 15-175
CARYOPHYLLENE FEMA 20-200
CITRAL FEMA 4-170
EUGENOL FEMA 10-500
GERANIOL FEMA 1-10
GERANYL-ACETATE FEMA 1-20
METHYL-CINNAMATE FEMA 2-40
METHYL-EUGENOL FEMA 5-15
METHYL-NONYL-KETONE FEMA 0.5-5
MYRCENE FEMA 0.5-9

Fungicide

Chemicals (8)

1,8-CINEOLE
CAMPHOR ED50=2.7 mM
CARYOPHYLLENE
CITRAL MIC 625 ug/ml
EUGENOL
GERANIOL IC93=2 mM
METHYL-EUGENOL
MYRCENE

Fungistat — Laekeman, G.M., Van Hoof, L., Haemers, A., Vanden Berghe, D.A., Herman, A.G., and Vlietinck, A.J. Eugenol a Valuable Compound for In Vitro Experimental Research and Worthwhile for Further In Vivo Investigation. Phytotherapy Research 4(3): 93, 1990.

Chemicals (1)

METHYL-EUGENOL 100 ug/ml

Gastroprotective

Chemicals (2)

1,8-CINEOLE
CARYOPHYLLENE

Glaucomagenic

Chemicals (1)

CITRAL

Glutathionigenic

Chemicals (1)

CITRAL

Gonadotrophic — Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.

Chemicals (1)

BETA-SITOSTEROL

Gram(+)icide

Chemicals (1)

1,8-CINEOLE

Gram(-)icide

Chemicals (1)

1,8-CINEOLE

Hepatocarcinogenic — Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.

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Chemicals (1)

METHYL-CHAVICOL

Hepatoprotective

Chemicals (3)

BETA-SITOSTEROL
EUGENOL 100 ppm
URSOLIC-ACID 1-100 ug/ml

Hepatotonic

Chemicals (1)

1,8-CINEOLE

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.

Chemicals (6)

1,8-CINEOLE IC50=78 uM
ALPHA-PINENE IC50=30 uM
CAMPHOR IC50=3.3-180 mM
CITRAL IC50=115 uM
EUGENOL
GERANIOL IC100-2,000 uM

Hypocholesterolemic — Martindale's 28th

Chemicals (1)

BETA-SITOSTEROL 2-6 g/man/day/orl

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

Chemicals (1)

CAMPHENE

Hypoglycemic — Ivorra, M.D., Paya, M., and Villar, A. 1989. A Review of Natural Products and Plants as Potential Antidiabetic Drugs. Journal of Ethnopharmacology, 27: 243-275, 1989.

Chemicals (2)

BETA-SITOSTEROL
URSOLIC-ACID

Hypolipidemic

Chemicals (1)

BETA-SITOSTEROL 2-6 g/day

Hypotensive

Chemicals (2)

1,8-CINEOLE
URSOLIC-ACID

Hypothermic

Chemicals (2)

METHYL-CHAVICOL
MYRCENE

Immunomodulator

Chemicals (1)

URSOLIC-ACID

Inflammatory

Chemicals (1)

1,8-CINEOLE inj

Insect-Repellent

Chemicals (1)

CAMPHOR

Insecticide

Chemicals (5)

ALPHA-PINENE 0.82 uM/fly
EUGENOL
METHYL-CHAVICOL
METHYL-CINNAMATE
TERPINEOL LC50=156-194 mg/l

Insectifuge

Chemicals (10)

1,8-CINEOLE
ALPHA-PINENE 50 ppm
CAMPHENE
CAMPHOR
CARYOPHYLLENE
EUGENOL
GERANIOL 50 ppm
METHYL-EUGENOL
MYRCENE
TERPINEOL

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

Chemicals (3)

ALPHA-PINENE
GERANIOL
GERANYL-ACETATE

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.

Chemicals (6)

1,8-CINEOLE
ALPHA-PINENE
CAMPHOR
CARYOPHYLLENE
EUGENOL
MYRCENE

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

Chemicals (1)

METHYL-NONYL-KETONE

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

Chemicals (1)

EUGENOL

Larvicide

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Chemicals (3)

CARYOPHYLLENE

EUGENOL

TERPINEOL LC50=156-194 mg/l

Leucocytogenic

Chemicals (1)

URSOLIC-ACID

Lipoxygenase-Inhibitor

Chemicals (1)

URSOLIC-ACID IC50=0.18 mM

MMP-9-Inhibitor

Chemicals (1)

URSOLIC-ACID IC80=10 uM

Mosquitocide

Chemicals (1)

CARYOPHYLLENE

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

Chemicals (1)

EUGENOL

Mycobactericide

Chemicals (1)

GERANIOL MIC=64 ug/ml

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.

Chemicals (4)

1,8-CINEOLE

CITRAL 200 mg/kg

METHYL-EUGENOL

MYRCENE 100-200 mg/kg

Narcotic

Chemicals (1)

METHYL-EUGENOL

Nematicide

Shoyakugaku Zasshi, 44: 183.

Chemicals (7)

1,8-CINEOLE

CAMPHOR MLC=1 mg/ml

CITRAL IC52=100 ug/ml

EUGENOL MLC=2,000 ug/ml

GERANIOL IC86=100 ug/ml

METHYL-CINNAMATE MLC=1 mg/ml

METHYL-EUGENOL MIC=1 mg/ml

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 Benficent Nature. The Risk of Herbal Preparations. Anns. Intern. Med. 117(2):165-6; Huxtable, R.

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Chemicals (2)

1,8-CINEOLE

EUGENOL

NF-kB-Inhibitor

Chemicals (1)

CITRAL

NO-Inhibitor

Chemicals (1)

CITRAL

Occuloirritant

Chemicals (1)

CAMPHOR

Ornithine-Decarboxylase-Inhibitor

Chemicals (1)

URSOLIC-ACID

P450-2B1-Inhibitor

Chemicals (4)

ALPHA-PINENE IC50=0.087 uM

CAMPHOR IC50=7.89 uM

CITRAL IC50=1.19 uM

MYRCENE IC50=0.14 uM

P450-Inducer

Chemicals (2)

1,8-CINEOLE

DELTA-CADINENE

Pediculicide

Chemicals (1)

1,8-CINEOLE 2.3 x pyrethrin

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

Chemicals (1)

1,8-CINEOLE

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

Chemicals (12)

ALPHA-PINENE

CARYOPHYLLENE

CITRAL

EUGENOL

EUGENYL-ACETATE FEMA 0.5-200 ppm

GERANIOL

GERANYL-ACETATE

METHYL-CINNAMATE

METHYL-EUGENOL

METHYL-NONYL-KETONE

MYRCENE

TERPINEOL

Pesticide

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Chemicals (18)

1,8-CINEOLE
ALPHA-PINENE
BETA-SITOSTEROL
CAMPHENE
CAMPHOR
CARYOPHYLLENE
CITRAL
DELTA-CADINENE
EUGENOL
FARNESENE
GERANIOL
METHYL-CHAVICOL
METHYL-CINNAMATE
METHYL-EUGENOL
MYRCENE
NEVADENSIN
TERPINEOL
URSOLIC-ACID

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

Chemicals (1)

FARNESENE

Phospholipase-A2-Inhibitor	

Chemicals (1)

BETULINIC-ACID

Piscicide	

Chemicals (1)

URSOLIC-ACID

Potassium-Sparing	Iwu, M.M. 1993. Handbook of African Medicinal Plants. CRC Press, Boca Raton, FL 435 pp.

Chemicals (1)

URSOLIC-ACID 3 mg/rat

Prostaglandin-Synthesis-Inhibitor	Huang, C., Tunon, H., Bohlin, L. 1995. Anti-Inflammatory Compounds Isolated from Menyanthes trifoliata L. Yao Hsueh Hsueh Pao, 30(8): 621-626.

Chemicals (2)

BETULINIC-ACID 200 ug/ml
EUGENOL 1 mM rbt

Prostatitigenic	

Chemicals (1)

CITRAL 185 mg/kg/day/3 ms

Protease-Inhibitor	

Chemicals (1)

URSOLIC-ACID IC85=18 ug/ml

Protisticide	Chemical Express, 7: 285, 1992.

Chemicals (1)

URSOLIC-ACID

Quinone-Reductase-Inducer	Lee, S. K., Song, Y., Mata-Greenwood, E., Kelloff, G. J., Steele, V. E., Pezzuto, J. M. 1999. Modulation of in vitro Biomarkers of the Carcinogenic Process by Chemopreventive Agents. Anticancer Res., 19: 35-44.

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Chemicals (1)

URSOLIC-ACID 5 ug/ml

Respirainhibitor	Merck 11th Edition

Chemicals (1)

CAMPHOR

Respirastimulant	Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.

Chemicals (1)

CAMPHOR

Rubefacient	Martindale's 29th

Chemicals (2)

1,8-CINEOLE
CAMPHOR

Secretogogue

Chemicals (1)

1,8-CINEOLE

Sedative	Lawrence Review of Natural Products, Jun-90.

Chemicals (8)

1,8-CINEOLE
ALPHA-PINENE
CARYOPHYLLENE
CITRAL ED 1-32 mg/kg
EUGENOL
GERANIOL
GERANYL-ACETATE
METHYL-EUGENOL

Sodium-Sparing	Iwu, M.M. 1993. Handbook of African Medicinal Plants. CRC Press, Boca Raton, FL 435 pp.

Chemicals (1)

URSOLIC-ACID 3 mg/rat

Spasmogenic

Chemicals (3)

1,8-CINEOLE
ALPHA-PINENE
CAMPHENE

Spermicide	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.

Chemicals (1)

BETA-SITOSTEROL

Stimulant	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 Benficent Nature. The Risk of Herbal Preparations. Anns. Intern. Med. 117(2):165-6; Huxtable, R.

Chemicals (1)

CAMPHOR

Surfactant

Chemicals (1)

1,8-CINEOLE

Teratogenic

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Chemicals (1)

CITRAL

Termiticide

Chemicals (1)

EUGENOL LD100=5 mg/g

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

Chemicals (1)

CARYOPHYLLENE

Testosterone-Hydroxylase-Inducer

Chemicals (1)

1,8-CINEOLE

Testosterone-Inducer

Chemicals (1)

DELTA-CADINENE

TOPO-2-Inhibitor

Chemicals (1)

URSOLIC-ACID

Tranquilizer — Lawrence Review of Natural Products, Jun-90.

Chemicals (1)

ALPHA-PINENE

Transdermal

Chemicals (3)

1,8-CINEOLE
ALPHA-PINENE
CAMPHOR

Trichomonicide

Chemicals (4)

1,8-CINEOLE LD100=1,000 ug/ml
CITRAL LD100=150 ug/ml
EUGENOL LD100=300 ug/ml
GERANIOL LD100=300 ug/ml

Trichomonistat — Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.

Chemicals (1)

EUGENOL IC50=10 ug/ml

Trypanocide

Chemicals (2)

CITRAL
URSOLIC-ACID

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

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Chemicals (2)

EUGENOL

EUGENYL-ACETATE

Tyrosinase-Inhibitor

Chemicals (1)

CITRAL ID50=1.5 mM

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

Chemicals (1)

BETA-SITOSTEROL

Ulcerogenic

Chemicals (2)

BETA-SITOSTEROL 500 mg/kg ipr rat

EUGENOL

Varroacide

Chemicals (1)

EUGENOL

Vasodilator

Chemicals (1)

EUGENOL

Vasopressor

Chemicals (1)

URSOLIC-ACID

Vermifuge

Chemicals (1)

EUGENOL

Verrucolytic — Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.

Chemicals (1)

CAMPHOR

Vibriocide — Wealth of India.

Chemicals (1)

CAMPHOR 500 ug/ml

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