

List of All Chemicals

Scutellaria baicalensis (Lamiaceae)

Common name(s)

Baikal Skullcap; Huang Qin; Chinese Skullcap

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 <input type="button" value="All"/>	Low PPM	High PPM	StdDev	*Reference
(+)-5,5'-DIMETHOXYLARICINESINOL	Root	--	22.0		*
(-)-ERODICTYOL	Root	--	7.0		*
(2R,3R)-2',3,5,6',7-PENTAHYDROXYFLAVONONE	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
1-PHENYL-BUTANE-1,3-DIONE	Root Essent. Oil	--	--		*
2',3',5,7-TETRAHYDROXYFLAVONE	Root	--	6.4		*
2',3,5,6',7-PENTAHYDROXY-2(R),3(R)-FLAVANONE	Root	--	420.0		*
2',3,5,6',7-PENTAHYDROXYFLAVANONE	Root	--	120.0		*
2',3,5,6',7-PENTAHYDROXYFLAVONE	Root	--	10.0		*
2',3,5,6',7-PENTAMETHOXYFLAVANONE	Root	--	674.0		*
2',5,5',7-TETRAHYDROXY-6',8-DIMETHOXYFLAVONE	Root	17.0	356.0		*
2',5,5',7-TETRAHYDROXYFLAVONE	Root	--	3.5		*
2',5,5'-TRIHYDROXY-6,7,8-TRIMETHOXYFLAVONE	Root	--	4.0		*
2',5,5'-TRIHYDROXY-7,8-DIMETHOXYFLAVONE	Root	--	--		*
2',5,6',7-TETRAHYDROXY-2(S)-FLAVANONE	Root	--	380.0		*
2',5,6',7-TETRAHYDROXYFLAVANONE	Stem	--	--		*
2',5,6',7-TETRAHYDROXYFLAVANONE	Root	--	--		*
2',5,6',7-TETRAHYDROXYFLAVONE	Root	--	--		*
2',5,6'-TETRAHYDROXYFLAVANONE	Root	--	--		*
2',5,6'-TRIHYDROXY-7,8-DIMETHOXYFLAVONE	Root	--	7.0		*
2',5,7-TRIHYDROXY-6',8-DIMETHOXYFLAVONE	Root	--	9.0		*
2',5,7-TRIHYDROXY-6',8-TRIMETHOXYFLAVONE	Root	--	7.0		*
2',5,7-TRIHYDROXY-6'-METHOXYFLAVONE	Root	--	4.0		*
2',5,7-TRIHYDROXY-8-METHOXYFLAVONE	Root	--	6.0		*
2',5,7-TRIHYDROXYFLAVONE	Root	--	6.0		*

2',5,8-TRIHYDROXY-6,7-DIMETHOXYFLAVONE	Root	--	200.0	*
2'-METHYLSKULLCAPFLAVONE	Root	--	--	*
2(S),2',5,6',7-TETRAHYDROXYFLAVANONE	Root	--	230.0	*
2,2',4',6-TETRAHYDROXY-6'-METHOXYCHALCONE	Root	--	5.0	*
2,3-DIHYDROBENZOFURAN	Root Essent. Oil	--	--	*
Activities (1)				
Prooxidant				
2-FORMYL-PYRROLE	Root Essent. Oil	--	--	*
2-HYDROXYACETOPHENONE	Root Essent. Oil	--	--	*
2-METHYL-BENZYL-ALCOHOL	Root Essent. Oil	--	--	*
2-PENTYL-FURAN	Root Essent. Oil	--	--	*
2-PHENYL-BUTAN-2-ONE	Root Essent. Oil	--	--	*
2S-2',5,6',7-TETRAHYDROXYFLAVONONE	Root	--	--	Abstract (See species file)
3-PHENYL-FURAN	Root Essent. Oil	--	--	*
3-PHENYL-PROP-2-EN-1-AL	Root Essent. Oil	--	--	*
4',5,7-TRIHYDROXY-6-METHOXY-FLAVANONE	Root	--	115.0	*
4',5,7-TRIHYDROXY-8-METHOXYFLAVONE	Root	20.0	30.0	*
4-ETHENYLGUAIACOL	Root Essent. Oil	--	--	*
4-METHOXY-ACETOPHENONE	Root Essent. Oil	--	--	*
4-METHOXY-BENZALDEHYDE	Root Essent. Oil	--	--	*
4-PHENYL-BUT-CIS-3-EN-2-ONE	Root Essent. Oil	--	--	*
4-PHENYL-BUT-TRANS-3-EN-2-ONE	Root Essent. Oil	--	--	*
5,2',5'-TRIHYDROXY-6,7,8-TRIMETHOXYFLAVONE	Root	--	--	Abstract (See species file)
5,7,2',5'-TETRAHYDROXY-8,6'-DIMETHOXYFLAVONE	Root	--	--	Abstract (See species file)
5,7,2'-TRIHYDROXY-8-METHOXYFLAVONE	Root	--	--	Abstract (See species file)

5,7,2'-TRIHYDROXYFLAVONE	Root	--	--	Abstract (See species file)
5,7-DIHYDROXY-6-METHOXYFLAVONE	Root	--	--	*
5,8-DIHYDROXY-6,7-DIMETHOXYFLAVONE	Root	--	50.0	*
5-HYDROXY-7,8-DIMETHOXYFLAVONE	Root	--	5.0	*
5-METHYL-FUR-2-ALDEHYDE	Root Essent. Oil	--	--	*
7-METHOXY-BAICALEIN	Root	--	--	*
ACETIC-ACID	Root Essent. Oil	--	--	*

Activities (16)

Acidulant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antibacterial 5,000 ppm	
Antiotitic	Martindale's 28th
Antisalmonella	
Antivaginitic 1-2%	
Expectorant	Martindale's 28th
Fungicide	Martindale's 29th
Keratitigenic	
Mucolytic	Martindale's 29th
Osteolytic	
Perfumery FEMA 6,000-40,000 ppm	Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry
Pesticide	
Protisticide	Martindale's 29th
Spermicide	Martindale's 28th
Ulcerogenic	HerbalGram No. 20, page 9.
Verrucolytic	

ACETOPHENONE	Root Essent. Oil	--	--	*
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Activities (6)

Antibacterial	
Fungicide	Tomas-Barberan, F., Iniesta-Sanmartin, E., Tomas-Lorente, F., and Rumbero, A. 1989. Antimicrobial Phenolic Compounds From Three Spanish Helichrysum Species. Phytochemistry. 29(4): 1093-1095. 1990.
Hypnotic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Perfumery FEMA <10,000	
Pesticide	
Soporific	Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry

ACETYLPIRROLE	Root Essent. Oil	--	--	*
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ALPHA-CUBEBENE	Root Essent. Oil	--	--	*
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APIGENIN	Leaf	--	60.0	*
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Activities (101)

11B-HSD-Inhibitor	
AntiADD	
AntiHIV IC72=200 ug/ml	
AntiHIV IC50=143 ug/ml	
Antiaflatoxin IC50=9.52 uM	
Antiaflatoxin IC50=2.57 ppm	
Antiaggregant	
Antiaging	
Antiallergic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).

Antiangiogenic 4 uM	
Antiarrhythmic	
Antibacterial	Recio, M. C., Rios, J. L., and Villar, A., A review of some antimicrobial compounds isolated from medicinal plants reported in the literature 1978-1988, <i>Phytotherapy Research</i> , 3(4), 1989, 117-125.
Anticancer (Lung)	
Anticomplementary	
Antidermatitic	Bisset, N.G., ed. 1994. <i>Herbal Drugs and Phytopharmaceuticals</i> . CRC Press. Boca Raton, FL. 566 pp.
Antiestrogenic	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiherpetic 20-54 ug/ml	
Antihistaminic IC50=10-35 uM	
Antiinflammatory #NAME?	
Antiinflammatory IC65=1,000 uM	
Antileukemic 20-50 uM	
Antimelanomic 1-50 uM	
Antimetastatic 1-50 uM	
Antimutagenic ID50=10-40 nM	Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp.
Antimutagenic ID50=0.55 ug/ml	
Antioxidant 1.5 x Vit. E	
Antioxidant IC28.5=62.5 ug/ml	
Antiperistaltic	
Antiproliferant 1-50 uM	
Antiproliferant IC50=155 uM	
Antispasmodic EC50=1-5 uM	
Antistress 10 mg/kg	
Antithyroid	Jim Duke's personal files.
Antitumor 1-50 uM	
Antitumor (Breast) 1-50 uM	
Antitumor (Lung)	
Antitumor (Skin)	
Antiviral 20-54 ug/ml	
Anxiolytic 10 mg/kg	
Apoptotic 12-60 uM	
Aromatase-Inhibitor IC65=1 uM/l	<i>Journal of Medicinal Food</i> 2: 235.1999.
Beta-Glucuronidase-Inhibitor IC50=-40 uM	
CNS-Depressant	
COX-1-Inhibitor IC65=1,000 uM	
COX-2-Inhibitor IC>65=1,000 uM	
COX-2-Inhibitor <40 uM	
COX-2-Inhibitor IC50=<15 uM	
Calcium-Antagonist?	<i>Biochimica & Biophysica Acta</i> , 1115: 69, 1991.
Cancer-Preventive	Stitt, P. A. <i>Why George Should Eat Broccoli</i> . Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Choleretic	
Cyclooxygenase-Inhibitor	
Cytochrome-P450-1A1-Inhibitor	
Cytotoxic IC88=10 ug/ml	<i>Planta Medica</i> , 57: A113, 1991.
Cytotoxic 1-50 uM	
Cytotoxic IC50=9.5 uM	
DNA-Protective	
Deiodinase-Inhibitor	Jim Duke's personal files.
Differentiator MIC=30 uM	
Differentiator IC40=40 uM	
Diuretic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Estrogenic EC50=0.1-25 uM/l	<i>Journal of Medicinal Food</i> 2: 227.1999.
Estrogenic 16% genistein	
Estrogenic EC50=1 uM	
HIF-1alpha-Inhibitor	
Hyaluronidase-Inhibitor IC50+=50-250 uM	
Hypotensive	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.

ICAM-1-Inhibitor	
IKK-Inhibitor	
Inotropic	
Interleukin-6-Inhibitor	
MAO-Inhibitor	
MAPK-Inhibitor	
Musculotropic	Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
Mutagenic	
Myorelaxant	Jeffery B., Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
NADH-Oxidase-Inhibitor	
NF-kB-Inhibitor	
NO-Synthase-Inhibitor 5-50 uM	
Nodulation-Signal	Jeffery B., Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Ornithine-Decarboxylase-Inhibitor	
P21-Inducer 10-70 uM	
PKC-Inhibitor IC50=10 uM	
PTK-Inhibitor 10-100 uM	
Pesticide	
Polyamine-Synthesis-Inhibitor	
Progestational	
Protein-Kinase-C-Inhibitor IC50=10-40 uM	
Quinone-Reductase-Inducer 20 uM	Uda, Y., Price, K. R., Williamson, G., Rhodes, M. J. C. 1997. Induction of the Anticarcinogenic Marker Enzyme, Quinone Reductase, in Murine Hepatoma Cells In Vitro by Flavonoids. Cancer Lett., 120 (2): 213-216.
Radioprotective	
Sedative 30-100 mg/kg	
Sunscreen	
TNF-alpha-Inhibitor IC50=3.27 uM	
Topoisomerase-I-Inhibitor	Santti, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. Toxicol Ind Health, 14: 223-237.
Topoisomerase-II-Inhibitor 50 ug/ml	Azuma, Y., Onishi, Y., Sato, Y., Kizaki, H. 1995. Effects of Protein Tyrosine Kinase Inhibitors With Different Modes of Action on Topoisomerase Activity and Death of IL-2-Dependent CTLL-2-Cells. J Biochemistry, 118: 312-318.
Topoisomerase-II-Inhibitor IC28=18 uM	
Topoisomerase-II-Inhibitor IC45=180 uM	
Uterotropic EC50=0.1-25 uM/l	Journal of Medicinal Food 2: 227.1999.
VEGF-Inhibitor IC50=2-7 uM	
Vasodilator	
Xanthine-Oxidase-Inhibitor 0.36 uM	
iNOS-Inhibitor IC50=<15 uM	

APIGENIN-7-O-GLUCURONIDE	Leaf	--	40.0	*
ARGININE	Root	--	--	*

Activities (14)

Antidiabetic?	Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
Antiencephalopathic	Martindale's 29th
Antihepatic	Martindale's 29th
Antihypertensive	
Antiimpotence	
Antiinfertility 4 g/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antioxidant?	
Aphrodisiac 3 g/day	
Diuretic	
Hypoammonemic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
NO-Genic	
Pituitary-Stimulant	
Spermigenic 4 g/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Vasodilator	

ARSENIC	Root	--	0.18	-0.2	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
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Activities (2)

Anorexic	Forest H. Nielsen, USDA, Grand Forks, various publications.
Pesticide	

ASPARTIC-ACID	Root	--	--	*
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Activities (3)

Antimorphinic	Martindale's 28th
Neuroexcitant	Martindale's 28th
Roborant	Merck 11th Edition

BAICALEIN	Stem	--	400.0	*
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Activities (50)

12-Lipoxygenase-Inhibitor

 17-beta-hydroxysteroid
dehydrogenase-Inhibitor 9.3
uM

 5-Lipoxygenase-Inhibitor
IC50=0.1-5 uM

 Aldose-Reductase-Inhibitor
IC50=0.98 ppm

 Kohda, H., Tanaka, S., Yamaoka, Y., Yahara, S., Nohara, T., Tanimoto, T., Tanaka, A. 1989. Studies on Lens-Aldose-Reductase Inhibitor in Medicinal Plants.II Active Constituents of *Monochasma savatieri* FRANCH, et MAXIM. Chem. Pharm. Bull. 37(11):3153-3154

 Aldose-Reductase-Inhibitor
IC62=10 uM

 Shimizu, M., Ito, T., Terashima, S., Hayashi, T., Arisawa, M., Morita, N., Kurokawa, S., Ito, K., and Hashimoto, Y. 1984. Inhibition of Lens Aldose Reductase by Flavonoids. *Phytochemistry*, 23: 1885-1888.

 Aldose-Reductase-Inhibitor
IC50=0.98 rbt

 Kohda, H., Tanaka, S., Yamaoka, Y., Yahara, S., Nohara, T., Tanimoto, T., Tanaka, A. 1989. Studies on Lens-Aldose-Reductase Inhibitor in Medicinal Plants.II Active Constituents of *Monochasma savatieri* FRANCH, et MAXIM. Chem. Pharm. Bull. 37(11):3153-3154

AntiHIV

Antiacne

 Antiaggregant ED50=120-
200 mg/kg

 Butenko, I.G., Gladchenko, S.V., and Galushko, S.V. Anti-inflammatory properties and inhibition of leukotriene C4 biosynthesis in vitro by flavonoid baicalein from *Scutellaria baicalensis* georgy roots. *Agents Actions* 39: C49, 1993.

Antiallergic

 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.

 Antiarthritic IC28=20 mg/kg
scu rat

Antiasthmatic

 Antiatherosclerotic
IC50=3.5-8.6 uM

 Foster, S. and Yue, C-G. 1992. *Herbal Emissaries-Bringing Chinese Herbs to the West*. Healing Arts Press, Rochester VT. 356 pp.

Antibacterial

Anticolitic 20 mg/kg

Antidermatitic

 Antidote (Strychnine) 10 mg
mus

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

 Antiedemic IC28=20 mg/kg
scu rat

Antiflu

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

 Antigenotoxic IC50=22-34
uM

Antihepatomic

Antihistaminic

 Antiinflammatory IC28=20
mg/kg scu rat

 Antiinflammatory IC50=0.1-
5 uM

 Antileukemic IC50=0.26
ug/ml

Life Sciences 55: 1061.

Antileukemic 2 ug/ml

Economic & Medicinal Plant Research, 5: 225.

Antimutagenic

Antiproliferative

 Huang, H-C., Wang, H-R., and Hsieh, L-M. 1993. Antiproliferative effect of baicalein, a flavonoid from a Chinese herb, on vascular smooth muscle cell. *European J. of Pharmacology* 251: 91-93, 1994.

Antipyretic

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

Antiretroviral

 Antithrombotic IC50=3.5-8.6
uM

Antithrombotic IC50=3.7 uM

 Antitoxin (Strychnine) 10 mg
mus

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

Antiviral

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

Apoptotic

Astringent

Merck 11th Edition

COX-1-Inhibitor 100 ug/ml

 Fukutake, M., Yokota, S., Kawamura, H., Iizuka, A., Amagaya, S., Fukuda, K., Komatsu, Y. 1998. Inhibitory effect of *Coptidis rhizoma* and *Scutellariae radix* on azoxymethane-induced aberrant crypt foci formation in rat colon. *Biol Pharm Bull*, 21(8): 814-817

COX-2-Inhibitor 100 ug/ml

Choleric

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

Cyclooxygenase-Inhibitor

Diuretic

Fungicide

HIV-RT-Inhibitor 2 ug/ml

Economic & Medicinal Plant Research, 5: 225.

 HIV-RT-Inhibitor IC50=<1
ug/ml

 Nakane, H., Fukushima, M., and Ono*, K. Differential Inhibition Of Reverse Transcriptase And Various DNA Polymerases By Digallic Acid And Its Derivatives. *Journal of Natural Products*, 53(5): 1234-1240, 1990.

Hypocholesterolemic

Neuroprotective 10 uM

Pesticide

 Topoisomerase-II-Inhibitor
200 ug/ml

 Matsuzaki, Y., Kurokawa, N., Terai, S., Matsumura, Y., Kobayashi, N., Okita, K. 1996. Cell Death Induced by Baicalein in Human Hepatocellular Carcinoma Cell Lines. *Jap J Cancer Res*, 87: 170-177.

Triglycerolytic

 Xanthine-Oxidase-Inhibitor
IC50=3 uM

Activities (50)

12-Lipoxygenase-Inhibitor

17-beta-hydroxysteroid
dehydrogenase-Inhibitor 9.3
uM5-Lipoxygenase-Inhibitor
IC50=0.1-5 uMAldose-Reductase-Inhibitor
IC50=0.98 ppmKohda, H., Tanaka, S., Yamaoka, Y., Yahara, S., Nohara, T., Tanimoto, T., Tanaka, A. 1989. Studies on Lens-Aldose-Reductase Inhibitor in Medicinal Plants. II Active Constituents of *Monochasma savatieri* FRANCH, et MAXIM. Chem. Pharm. Bull. 37(11):3153-3154Aldose-Reductase-Inhibitor
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Shimizu, M., Ito, T., Terashima, S., Hayashi, T., Arisawa, M., Morita, N., Kurokawa, S., Ito, K., and Hashimoto, Y. 1984. Inhibition of Lens Aldose Reductase by Flavonoids. Phytochemistry, 23: 1885-1888.

Aldose-Reductase-Inhibitor
IC50=0.98 rbtKohda, H., Tanaka, S., Yamaoka, Y., Yahara, S., Nohara, T., Tanimoto, T., Tanaka, A. 1989. Studies on Lens-Aldose-Reductase Inhibitor in Medicinal Plants. II Active Constituents of *Monochasma savatieri* FRANCH, et MAXIM. Chem. Pharm. Bull. 37(11):3153-3154

AntiHIV

Antiacne

Antiaggregant ED50=120-
200 mg/kgButenko, I.G., Gladchenko, S.V., and Galushko, S.V. Anti-inflammatory properties and inhibition of leukotriene C4 biosynthesis in vitro by flavonoid baicalein from *Scutellaria baicalensis georgy* roots. Agents Actions 39: C49, 1993.

Antiallergic

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.

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Antiflu

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

Antigenotoxic IC50=22-34
uM

Antihepatomic

Antihistaminic

Antiinflammatory IC28=20
mg/kg scu ratAntiinflammatory IC50=0.1-
5 uMAntileukemic IC50=0.26
ug/ml

Life Sciences 55: 1061.

Antileukemic 2 ug/ml

Economic & Medicinal Plant Research, 5: 225.

Antimutagenic

Antiproliferative

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Antipyretic

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Antiretroviral

Antithrombotic IC50=3.5-8.6
uM

Antithrombotic IC50=3.7 uM

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Astringent

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COX-2-Inhibitor 100 ug/ml

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Cyclooxygenase-Inhibitor

Diuretic

Fungicide

HIV-RT-Inhibitor 2 ug/ml

Economic & Medicinal Plant Research, 5: 225.

HIV-RT-Inhibitor IC50=<1
ug/ml

Nakane, H., Fukushima, M., and Ono*, K. Differential Inhibition Of Reverse Transcriptase And Various DNA Polymerases By Digallic Acid And Its Derivatives. Journal of Natural Products, 53(5): 1234-1240, 1990.

Hypocholesterolemic

Neuroprotective 10 uM

Pesticide

Topoisomerase-II-Inhibitor
200 ug/ml

Matsuzaki, Y., Kurokawa, N., Terai, S., Matsumura, Y., Kobayashi, N., Okita, K. 1996. Cell Death Induced by Baicalein in Human Hepatocellular Carcinoma Cell Lines. Jap J Cancer Res, 87: 170-177.

Triglycerolytic

Xanthine-Oxidase-Inhibitor
IC50=3 uM

BAICALEIN-7-O-BETA-D-GLUCOPYRANOSIDE	Root	--	50.0	*
BAICALEIN-7-O-BETA-D-GLUCOSIDE	Root	--	--	*
BAICALEIN-7-O-BETA-O-D-GLUCOPYRANOSIDE	Root	--	--	Abstract (See species file)
BAICALEIN-7-O-GLUCOSIDE	Root	--	--	Chemical Constituents of Oriental Herbs (3 diff. books)
BAICALEIN-GLUCOSIDE	Stem	--	--	*
BAICALEIN-GLUCOSIDE	Tissue Culture	--	--	*
BAICALIN	Root	1000.0	206000.0	*

Activities (40)

Aldose-Reductase-Inhibitor IC42=10 uM	Shimizu, M., Ito, T., Terashima, S., Hayashi, T., Arisawa, M., Morita, N., Kurokawa, S., Ito, K., and Hashimoto, Y. 1984. Inhibition of Lens Aldose Reductase by Flavonoids. <i>Phytochemistry</i> , 23: 1885-1888.
Aldose-Reductase-Inhibitor IC50=13.6 uM rat	Shin, K. H., Chae, Y. J., Chung, M. S., Lee, H. J. 1994. Effect of Flavonoids from <i>Scutellariae radix</i> on Cataract Formation and Polyol Accumulation in Rat Lens. <i>Korean J Pharmacog</i> , 25(1): 41-46.
AntiHIV	Cell Mol. Biol. Res. (Vol 39=1993)
Antiaggregant	
Antiallergic	Williamson, E. M. and Evans, F. J., <i>Potter's New Cyclopaedia of Botanical Drugs and Preparations</i> , Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Antianaphylactic	Abe, K-i., Inoue, O., and Yumioka, E. 1989. Biliary Excretion of Metabolites of Baicalin and Baicalein in Rats. <i>Chem. Pharm. Bull.</i> 38(1): 208-211, 1990.
Antiarthritic IC37=10 mg/kg scu rat	
Antiasthmatic	
Anticholinergic	
Antiedemic IC37=10 mg/kg scu rat	
Antihepatotoxic	
Antihepatotoxic 500 mg/man/day	
Antihistaminic	
Antiinflammatory IC37=10 mg/kg scu rat	
Antilaryngitic	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp.
Antinephritic	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp.
Antioxidant	<i>Journal of Nutritional and Environmental Medicine</i> . 1997. Volume 7: 79.
Antipelvic	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp.
Antipharyngitic	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp.
Antiproliferative	
Antipyretic	Foster, S. and Yue, C-G. 1992. <i>Herbal Emissaries-Bringing Chinese Herbs to the West</i> . Healing Arts Press, Rochester VT. 356 pp.
Antispasmodic	
Antithrombotic 0.1-1 mM	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Antitonsilic	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp.
Antitumor	
Apoptotic	
Chemopreventive	
Choleretic	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp.
Diuretic	
Hepatoprotective	<i>Journal of Nutritional and Environmental Medicine</i> . 1997. Volume 7: 79.
Hypocholesterolemic	
Hypotensive	Foster, S. and Yue, C-G. 1992. <i>Herbal Emissaries-Bringing Chinese Herbs to the West</i> . Healing Arts Press, Rochester VT. 356 pp.
Neuroprotective 10 uM	
Quinone-Reductase-Inducer	
Sedative	Foster, S. and Yue, C-G. 1992. <i>Herbal Emissaries-Bringing Chinese Herbs to the West</i> . Healing Arts Press, Rochester VT. 356 pp.
Sialidase-Inhibitor	Lawrence Review of Natural Products, Jan-93.
Tranquilizer	
Triglycerolytic	
Vasodilator	
Xanthine-Oxidase-Inhibitor IC50=215 uM	

BAICALIN	Tissue Culture	--	--	*
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Activities (40)

Aldose-Reductase-Inhibitor IC42=10 uM	Shimizu, M., Ito, T., Terashima, S., Hayashi, T., Arisawa, M., Morita, N., Kurokawa, S., Ito, K., and Hashimoto, Y. 1984. Inhibition of Lens Aldose Reductase by Flavonoids. <i>Phytochemistry</i> , 23: 1885-1888.
Aldose-Reductase-Inhibitor IC50=13.6 uM rat	Shin, K. H., Chae, Y. J., Chung, M. S., Lee, H. J. 1994. Effect of Flavonoids from <i>Scutellariae radix</i> on Cataract Formation and Polyol Accumulation in Rat Lens. <i>Korean J Pharmacog</i> , 25(1): 41-46.
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Antiaaggregant	
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Antianaphylactic	Abe, K-i., Inoue, O., and Yumioka, E. 1989. Biliary Excretion of Metabolites of Baicalin and Baicalein in Rats. <i>Chem. Pharm. Bull.</i> 38(1): 208-211, 1990.
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Antiasthmatic	
Anticholinergic	
Antiedemic IC37=10 mg/kg scu rat	
Antihepatomic	
Antihepatotic 500 mg/man/day	
Antihistaminic	
Antiinflammatory IC37=10 mg/kg scu rat	
Antilaryngitic	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp.
Antinephritic	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp.
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Tranquilizer	
Triglycerolytic	
Vasodilator	
Xanthine-Oxidase-Inhibitor IC50=215 uM	

BAICALIN

Plant

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Activities (40)

Aldose-Reductase-Inhibitor IC42=10 uM	Shimizu, M., Ito, T., Terashima, S., Hayashi, T., Arisawa, M., Morita, N., Kurokawa, S., Ito, K., and Hashimoto, Y. 1984. Inhibition of Lens Aldose Reductase by Flavonoids. <i>Phytochemistry</i> , 23: 1885-1888.
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Triglycerolytic	
Vasodilator	
Xanthine-Oxidase-Inhibitor IC50=215 uM	

BAICALIN

Stem 5800.0 43000.0

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Activities (40)

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Antianaphylactic	Abe, K-i., Inoue, O., and Yumioka, E. 1989. Biliary Excretion of Metabolites of Baicalin and Baicalein in Rats. <i>Chem. Pharm. Bull.</i> 38(1): 208-211, 1990.
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Hepatoprotective	<i>Journal of Nutritional and Environmental Medicine</i> . 1997. Volume 7: 79.
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Neuroprotective 10 uM	
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Sedative	Foster, S. and Yue, C-G. 1992. <i>Herbal Emissaries-Bringing Chinese Herbs to the West</i> . Healing Arts Press, Rochester VT. 356 pp.
Sialidase-Inhibitor	Lawrence Review of Natural Products, Jan-93.
Tranquilizer	
Triglycerolytic	
Vasodilator	
Xanthine-Oxidase-Inhibitor IC50=215 uM	

BAICALIN-7-GLUCURONIDE Root -- -- Chemical Constituents of Oriental Herbs (3 diff. books)

BAICALIN-A Plant -- -- Cell Mol. Biol. Res. (Vol 39=1993)

Activities (1)

AntiHIV Cell Mol. Biol. Res. (Vol 39=1993)

BAICALIN-GLUCURONIDE Root -- -- *

BAICALIN-METHYL-ESTER Root -- 27.0 *

BAICALINASE Root -- -- *

BENZOIC-ACID Root -- -- *
Essent.
Oil

Activities (20)

Allergenic	Martindale's 28th
Anesthetic	
Antibacterial 33-1,250 ppm	
Antibacterial MBC=800 ug/ml	
Antiotitic	Martindale's 28th
Antipyretic	
Antisalmonella MIC=800 ug/ml	
Antiseptic 800 ug/ml	
Antiyeast MFC=1,600 ug/ml	
Choleretic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Expectorant	
FLavor FEMA 250	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Fungicide MFC=1,600 ug/ml	
Insectifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Pesticide	
Phytoalexin	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Tyrosinase-Inhibitor ID50=710 uM	
Tyrosinase-Inhibitor ID50=640 uM	
Uricosuric	
Vulnerary	

BENZOIC-ACID

Root -- --

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

Activities (20)

Allergenic	Martindale's 28th
Anesthetic	
Antibacterial 33-1,250 ppm	
Antibacterial MBC=800 ug/ml	
Antiotitic	Martindale's 28th
Antipyretic	
Antisalmonella MIC=800 ug/ml	
Antiseptic 800 ug/ml	
Antiyeast MFC=1,600 ug/ml	
Choleretic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Expectorant	
FLavor FEMA 250	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Fungicide MFC=1,600 ug/ml	
Insectifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Pesticide	
Phytoalexin	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Tyrosinase-Inhibitor ID50=710 uM	
Tyrosinase-Inhibitor ID50=640 uM	
Uricosuric	
Vulnerary	

BENZYL-O-BETA-D-APIOFURANOSYL-(1,2)-BETA-D-GLUCOPYRANOSIDE

Root -- 13.0

*

BETA-DAMASCONE

Root
Essent.
Oil

-- --

*

BETA-ELEMENE

Root
Essent.
Oil

-- --

*

Activities (5)

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

BETA-EUDES MOL	Root	--	--	*
	Essent.			
	Oil			

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-SITOSTEROL	Root	--	--	*
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Activities (47)

Androgenic	
Angiogenic	
Anorexic	Martindale's 28th
Antiadenomic	Merck 11th Edition
Antiandrogenic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antibacterial	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
Anticancer (Breast)	Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from <i>Vaccinium myrtillus</i> (Bilberry) Fruits and Cell Cultures. <i>Plant Sci.</i> , 131(1): 95-103.
Anticancer (Cervix)	
Anticancer (Lung)	
Antiedemic IC54=320 mg/kg orl	
Antiestrogenic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antifeedant	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Antifertility	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antigonadotrophic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antihyperlipoproteinaemic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
Antiinflammatory	
Antileukemic	
Antilymphomic	
Antimutagenic 250 ug/ml	
Antiophidic 2.3 mg mus	Economic & Medicinal Plant Research, 5: 363.
Antioxidant IC44=10 uM	
Antiprogestational	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antiprostaglandin 30 mg/day/12 wks	
Antiprostadenomic	Merck 11th Edition
Antiprostatic 10-20 mg 3 x/day/orl man	
Antipyretic	Neuwinger, H. D. 1996. <i>African Ethnobotany - Poisons and Drugs.</i> Chapman & Hall, New York. 941 pp.
Antitumor (Breast)	Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from <i>Vaccinium myrtillus</i> (Bilberry) Fruits and Cell Cultures. <i>Plant Sci.</i> , 131(1): 95-103.
Antitumor (Cervix)	
Antitumor (Lung)	
Antiviral	Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in <i>Artemisia annua</i> . <i>Plant Science</i> , 75: 161-165, 1991.
Apoptotic	
Artemicide LC50=110 ppm	Jung, J.H., Pummangura, S., Chaichantipyuth, c., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of <i>Melodorum fruticosum</i> . <i>Phytochemistry</i> . 29(5): 1667-1670. 1990.
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Candidicide	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
Caspase-8-Inducer	
Estrogenic	
Febrifuge	Neuwinger, H. D. 1996. <i>African Ethnobotany - Poisons and Drugs.</i> Chapman & Hall, New York. 941 pp.
Gonadotrophic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Hepatoprotective	
Hypocholesterolemic 2-6 g/man/day/orl	Martindale's 30th
Hypocholesterolemic 9-3,330 mg/man/day/orl	Martindale's 28th
Hypoglycemic	Ivorra, M.D., Paya, M., and Villar, A. 1989. A Review of Natural Products and Plants as Potential Antidiabetic Drugs. <i>Journal of Ethnopharmacology</i> , 27: 243-275, 1989.
Hypolipidemic 2-6 g/day	
Pesticide	
Spermicide	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Ubiquiot	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
Ulcerogenic 500 mg/kg ipr rat	

BUTA-1,3-DIENYLBENZENE	Root	--	--	*
	Essent.			
	Oil			

BUTYLIDENE-PHTHALIDE	Root	--	--	*
	Essent.			
	Oil			

Activities (10)					
Acaricide					
Antianginal					
Antiarrhythmic					
Anticonstrictive					
Antiinflammatory					
Antiplatelet					
Antispasmodic		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 69.			
Arteriodilator					
Cyclooxygenase-Inhibitor					
Emmenagogue		Oriental Materia Medica (three volumes by Dr. Hsu and collaborators)			

CALCIUM	Root	4630.0	10300.0	0.32	*
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Activities (28)					
AntiPMS 1 g/day					
Antiallergic 500 mg/day					
Anti anxiety		Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
Antiarrhythmic 500-1,500 mg					
Antiarthritic 1,000 mg/day					
Antiatherosclerotic 500 mg/day		Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.			
Anticlimacteric 1,000-1,500 mg/day					
Antidepressant		Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
Antidote (Aluminum)		Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
Antidote (Lead)		Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
Antihyperkinetic		Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
Antihypertensive					
Antiinsomniac		Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
Antimenopausal 1,000-1,500 mg/day					
Antiobesity					
Antiosteoporotic 500-2,000 mg/day					
Antiperiodontic 750 mg/day		Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.			
Antirheumatic 1,000 mg/day					
Antistress 500-1,500 mg/day					
Antitic		Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
Anxiolytic 500-1,500 mg/day					
Calcium-Channel-Blocker					
Diuretic					
Hypocholesterolemic 500 mg/day		Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.			
Hypotensive 1 g/day		Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.			
Laxative 1,000-1,200 mg					
Tranquilizer 500-1,500 mg/day					
Vasodilator					

CAMPESTEROL	Root	--	--		*
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Activities (2)					
Antioxidant IC37=10 uM					
Hypocholesterolemic		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.			

CARTHAMIDIN	Leaf	--	--		*
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CARTHAMIDIN	Plant	--	--		J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
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CHRYSIN	Stem	--	--		*
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Activities (60)					
AntiHIV					
AntiMDR					
Anti aflatoxin IC50=8.19 uM					
Anti aflatoxin IC50=2.08 ppm					
Antiaggregant					
Antiallergic		Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).			
Antiangiogenic					

Antibacillary

Antibacterial

Anticonvulsant

Antiestrogenic

Antigout

Antiherpetic 40-75 ug/ml Amoros, M., Simoes, C.M.O., Girre, L., et al. Synergistic Effect Of Flavones And Flavonols Against Herpes Simplex Virus Type 1 In Cell Culture. Comparison With The Antiviral Activity Of Propolis. J. of Natural Products 55(12):1732-1740, 1992.

Antihypertensive

Antileukemic
>genistein

Antimutagenic Economic & Medicinal Plant Research, 6: 235.

Antiproliferant

Antiproliferant
>genistein

Antiproliferant
(colon)

Antisalmonella

Antishigellic

Antispasmodic Biochem Pharmacol, 40(10): 2227.

Antistaphylococcic

Antistress

Antithrombic

Antitumor (Breast)

Antitumor (Colon)

Antiviral 40-75 ug/ml Amoros, M., Simoes, C.M.O., Girre, L., et al. Synergistic Effect Of Flavones And Flavonols Against Herpes Simplex Virus Type 1 In Cell Culture. Comparison With The Antiviral Activity Of Propolis. J. of Natural Products 55(12):1732-1740, 1992.

Anxiolytic

Apoptotic

Aromatase-Inhibitor
IC80=1 uM/l

CNS-Depressant

CYP1A1-Inhibitor

Cancer-Preventive

Caspase-3-Inhibitor

Caspase-9-Inhibitor

Cytotoxic
>genistein

Cytotoxic

DNA-Protective

Estrogenic

Fungicide 2.5 mM Geibel, M. 1994. Sensitivity of the Fungus Cytospora persoonii to the Flavonoids of Prunus cerasus. Phytochemistry. 38(3): 599-601. 1995.

Hepatoprotective
IC50=8.19 uM

Hepatoprotective
IC50=2.08 ppm

Hypotensive

Hypouricemic

ICAM-1-Inhibitor

JNK-Inhibitor

MAO-Inhibitor

Mutagenic

Myorelaxant

NO-Genic

Pesticide

Radioprotective

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

Testosterogenic

Topoisomerase-I-Inhibitor Santti, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. Toxicol Ind Health, 14: 223-237.

VEGF-Inhibitor

Vasodilator

Vasorelaxant

Xanthine-Oxidase-Inhibitor

CHRYSIN

Leaf

--

40.0

*

Activities (60)

AntiHIV

AntiMDR

Anti aflatoxin
IC50=8.19 uM

Anti aflatoxin
IC50=2.08 ppm

Antianggregant	
Antiallergic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiangiogenic	
Antibacillary	
Antibacterial	
Anticonvulsant	
Antiestrogenic	
Antigout	
Antiherpetic 40-75 ug/ml	Amoros, M., Simoes, C.M.O., Girre, L., et al. Synergistic Effect Of Flavones And Flavonols Against Herpes Simplex Virus Type 1 In Cell Culture. Comparison With The Antiviral Activity Of Propolis. J. of Natural Products 55(12):1732-1740, 1992.
Antihypertensive	
Antileukemic >genistein	
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.
Antiproliferant	
Antiproliferant >genistein	
Antiproliferant (colon)	
Antisalmonella	
Antishigellic	
Antispasmodic	Biochem Pharmacol, 40(10): 2227.
Antistaphylococcic	
Antistress	
Antithrombic	
Antitumor (Breast)	
Antitumor (Colon)	
Antiviral 40-75 ug/ml	Amoros, M., Simoes, C.M.O., Girre, L., et al. Synergistic Effect Of Flavones And Flavonols Against Herpes Simplex Virus Type 1 In Cell Culture. Comparison With The Antiviral Activity Of Propolis. J. of Natural Products 55(12):1732-1740, 1992.
Anxiolytic	
Apoptotic	
Aromatase-Inhibitor IC80=1 uM/l	
CNS-Depressant	
CYP1A1-Inhibitor	
Cancer-Preventive	
Caspase-3-Inhibitor	
Caspase-9-Inhibitor	
Cytotoxic >genistein	
Cytotoxic	
DNA-Protective	
Estrogenic	
Fungicide 2.5 mM	Geibel, M. 1994. Sensitivity of the Fungus <i>Cytospora persoonii</i> to the Flavonoids of <i>Prunus cerasus</i> . <i>Phytochemistry</i> . 38(3): 599-601. 1995.
Hepatoprotective IC50=8.19 uM	
Hepatoprotective IC50=2.08 ppm	
Hypotensive	
Hypouricemic	
ICAM-1-Inhibitor	
JNK-Inhibitor	
MAO-Inhibitor	
Mutagenic	
Myorelaxant	
NO-Genic	
Pesticide	
Radioprotective	
Termitifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Testosterogenic	
Topoisomerase-I-Inhibitor	Santti, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. <i>Toxicol Ind Health</i> , 14: 223-237.
VEGF-Inhibitor	
Vasodilator	
Vasorelaxant	
Xanthine-Oxidase-Inhibitor	

CHRYSIN

Root

3.0

800.0

*

Activities (60)

AntiHIV

AntiMDR	
Antiaflatoxin IC50=8.19 uM	
Antiaflatoxin IC50=2.08 ppm	
Antiaaggregant	
Antiallergic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiangiogenic	
Antibacillary	
Antibacterial	
Anticonvulsant	
Antiestrogenic	
Antigout	
Antiherpetic 40-75 ug/ml	Amoros, M., Simoes, C.M.O., Girre, L., et al. Synergistic Effect Of Flavones And Flavonols Against Herpes Simplex Virus Type 1 In Cell Culture. Comparison With The Antiviral Activity Of Propolis. J. of Natural Products 55(12):1732-1740, 1992.
Antihypertensive	
Antileukemic >genistein	
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.
Antiproliferant	
Antiproliferant >genistein	
Antiproliferant (colon)	
Antisalmonella	
Antishigellic	
Antispasmodic	Biochem Pharmacol, 40(10): 2227.
Antistaphylococcic	
Antistress	
Antithrombic	
Antitumor (Breast)	
Antitumor (Colon)	
Antiviral 40-75 ug/ml	Amoros, M., Simoes, C.M.O., Girre, L., et al. Synergistic Effect Of Flavones And Flavonols Against Herpes Simplex Virus Type 1 In Cell Culture. Comparison With The Antiviral Activity Of Propolis. J. of Natural Products 55(12):1732-1740, 1992.
Anxiolytic	
Apoptotic	
Aromatase-Inhibitor IC80=1 uM/l	
CNS-Depressant	
CYP1A1-Inhibitor	
Cancer-Preventive	
Caspase-3-Inhibitor	
Caspase-9-Inhibitor	
Cytotoxic >genistein	
Cytotoxic	
DNA-Protective	
Estrogenic	
Fungicide 2.5 mM	Geibel, M. 1994. Sensitivity of the Fungus <i>Cytospora personii</i> to the Flavonoids of <i>Prunus cerasus</i> . <i>Phytochemistry</i> . 38(3): 599-601. 1995.
Hepatoprotective IC50=8.19 uM	
Hepatoprotective IC50=2.08 ppm	
Hypotensive	
Hypouricemic	
ICAM-1-Inhibitor	
JNK-Inhibitor	
MAO-Inhibitor	
Mutagenic	
Myorelaxant	
NO-Genic	
Pesticide	
Radioprotective	
Termitifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Testosterogenic	
Topoisomerase-I- Inhibitor	Santti, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. <i>Toxicol Ind Health</i> , 14: 223-237.
VEGF-Inhibitor	
Vasodilator	
Vasorelaxant	
Xanthine-Oxidase- Inhibitor	

CHRYSIN-6-C-ALPHA-L-ARABINOSIDE-8-C-BETA-D-GLUCOSIDE	Root	--	2000.0	*	
CHRYSIN-6-C-BETA-D-GLUCOSIDE	Root	--	--	*	
CHRYSIN-6-C-BETA-D-GLUCOSIDE-8-C-ALPHA-L-ARABINOSIDE	Root	--	100.0	*	
CHRYSIN-7-O-BETA-D-GLUCOSIDE	Root	--	43.0	*	
CHRYSIN-8-C-BETA-D-GLUCOSIDE	Root	--	46.0	*	
CNIDILIDE	Root Essent. Oil	--	--	*	
Activities (5)					
Antiinflammatory					
Antispasmodic	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.				
Emmenagogue					
Fungicide					
Pesticide					
COPPER	Root	13.0	18.0	0.7	*
Activities (12)					
Antianemic					
Antiarthritic					
Antidiabetic 2-4 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.				
Antifatigue					
Antiinflammatory	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.				
Antinociceptive	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.				
Antiosteoporotic					
Cardioprotective					
Contraceptive	Martindale's 28th				
Hypocholesterolemic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.				
Immunomodulator					
Schizophrenigenic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.				
CYCLOOCTA-1,3,5,7-TETRAENE	Root Essent. Oil	--	--	*	
D-GLUCOSE	Root	--	--	Chemical Constituents of Oriental Herbs (3 diff. books)	
Activities (1)					
Antisecretory					
DARENDROSIDE-A	Root	--	16.0	*	
DARENDROSIDE-B	Root	--	18.0	*	
DAUCOSTEROL	Root	--	--	*	
Activities (5)					
Aldose-Reductase-Inhibitor 0.1 mM/l rat (weak activity, 31.9% inhibition)	Fujita, T., Ohira, K., Miyatake, K., Nakano, Y., Nakayama, M. 1995. Inhibitory Effect of Perillosides A and C, Related Monoterpene Glucosides on Aldose Reductase and Their Structure-Activity Relationships. Chem Pharm Bull, 43(6): 920-926.				
Antileukemic					
Antispasmodic 20 mg/kg	=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp				
Antitumor					
Hypoglycemic	Economic & Medicinal Plant Research, 6: 158.				
DECANOIC-ACID	Root Essent. Oil	--	--	*	

Activities (3)

Flavor FEMA <1-1 Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry
 Nematicide Shoyakugaku Zasshi, 45: 270.
 Pesticide

DICHLOROOROXYLIN-A	Tissue Culture	--	--	*
DIHYDROBAICALIN	Root	--	5.0	*
DIHYDROOROXYLIN	Root	--	--	*
DIHYDROOROXYLIN	Plant	--	--	*
DIHYDROOROXYLIN-A	Stem	--	--	*
DIHYDROOROXYLIN-A	Plant	--	--	*
DIHYDROOROXYLIN-A	Root	--	9.0	*
ELEMICIN	Root Essent. Oil	--	--	*

Activities (16)

Antiaggregant IC50=360 uM Janssens, J., Laekeman, G.M., Pieters, L.A.C., Totte, J., Herman, A.G., and Vlietinck, A.J. 1990. Nutmeg Oil: Identification and Quantitation of its Most Active Constituents as Inhibitors of Platelet Aggregation. *J. of Ethnopharmacology*, 29: 179-188, 1990.
 Antidepressant ihl Jim Duke's personal files.
 Antifeedant Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
 Antihistaminic
 Antiserotonic Internat. J. Oriental Med. 15(4): 199, 1990+
 Antistress ihl Jim Duke's personal files.
 DNA-Binder Jeffery B. Harborne and H. Baxter, eds. 1983. *Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.* Taylor & Frost, London. 791 pp.
 Fungicide MIC=8 ug
 Hallucinogenic 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.
 Hypotensive ihl Jim Duke's personal files.
 Insecticide 100 ppm
 Insectifuge Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
 Larvicide 100 ppm
 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.
 Pesticide
 Schistosomicide Grenand, P., Moretti, C., and Jacquemin, H. 1987. *Pharmacopees Traditionnelles en Guyane.* l'ORSTROM, Paris. 569 pp.

EUGENOL	Root Essent. Oil	--	--	*
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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.
 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 IC ₅₀ =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 IC ₆₅ =30 ppm	
Antioxidant 10 uM	
Antiprostaglandin 11 uM	
Antiprostaglandin IC ₅₀ =9.2 mM	
Antipyretic 3 ml/man/day	
Antiradicular EC ₅₀ =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 IC ₅₀ =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 IC ₉₇ =1,000 uM	
COX-2-Inhibitor IC ₉₇ =1,000 uM	
COX-2-Inhibitor IC ₅₀ =129 uM	
Calcium-Antagonist IC ₅₀ =224 uM	
Calcium-Antagonist IC ₅₀ =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 IC ₅₀ =9.2 uM	
Sedative	
Termiticide LD ₁₀₀ =5 mg/g	
Trichomonicide LD ₁₀₀ =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					
FERRUGINOL	Root	--	--		*
	Essent.				
	Oil				
Activities (4)					
Antiaggregant	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.				
Anticoagulant	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.				
Pesticide					
Termitifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.				
FLUORIDE	Root	--	3.5	-0.71	*
Activities (3)					
Anticariogenic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.				
Antiosteoporotic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.				
Antiosteosclerotic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.				
GANHUANGENIN	Root	--	--		*
GERANYL-ACETONE	Root	--	--		*
	Essent.				
	Oil				
Activities (2)					
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 Fragrance	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.				
GLUTAMIC-ACID	Root	--	--		*
Activities (8)					
Antialkali? 500-1,000 mg/day/orl/man	Martindale's 29th				
Antiepileptic					
Antihyperammonemic	Martindale's 29th				
Antilithic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).				
Antiprostatisic 125-250 mg 3 x/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.				
Antiretardation	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
Anxiolytic	Merck 11th Edition				
Neurotoxic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
GLYCINE	Root	--	--		*
Activities (12)					
Antiacid	Martindale's 29th				
Antialdosteronic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).				
Antidote (Hypoglycin-A)	Martindale's 29th				
Antiencephalopathic	Martindale's 29th				
Antigastritic	Martindale's 29th				
Antiprostatisic 125-250 mg 3 x/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.				
Antipruritic	Merck 11th Edition				
Antisickling	Ekeke, G.I. and Shode, F.O. 1988. Phenylalanine is the Predominant Antisickling Agent in Cajanus cajan Seed Extract. Planta Medica 56(1): 41, 1990.				
Antiulcer	Martindale's 29th				
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.				
Neuroinhibitor	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.				
Uricosuric					
GUAIACOL	Root	--	--		*
	Essent.				
	Oil				

Activities (18)

Anesthetic	
Antibacterial 8,000 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.
Antidermatitic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antieczemic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antiesophagitic	Martindale's 29th
Antiseptic	Martindale's 29th
Antituberculic	
Cardiodepressant	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.
Cardiotonic	
Dermal	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.
Emetic	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.
Expectorant 0.3-0.6 ml/man	Martindale's 28th
FLavor FEMA <1-1	Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry
Insectifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Irritant	
Pesticide	
Prostaglandin-Synthesis-Inhibitor IC50=57 uM	Alanko, J., et al. 1999. Modulation of Arachidonic Acid Metabolism by Phenols: Relation to their Structure and Antioxidant/Prooxidant Properties. Free Radical Biol Med, 26(1/2): 193-201.
Transdermal	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.

HEDYOTOL-C-4''-O-BETA-D-GLUCOPYRANOSIDE	Root	--	38.0	*
HEDYOTOL-D-4''-O-BETA-D-GLUCOPYRANOSIDE	Root	--	32.0	*
HEPTANOIC-ACID	Root Essent. Oil	--	--	*
HEXAHYDROFARNESYL-ACETONE	Root Essent. Oil	--	--	*
HEXANO-4-LACTONE	Root Essent. Oil	--	--	*
HUANGQIN	Root	--	--	Chemical Constituents of Oriental Herbs (3 diff. books)
INDOLE	Root Essent. Oil	--	--	*

Activities (15)	
Aldose-Reductase-Inhibitor	
Antiacne	
Antibacterial MIC=800 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 MBC=800 ug/ml	
Anticariogenic MIC=800 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.
Antisalmonella MIC=800 ug/ml	
Antiseptic 800 ug/ml	
Antistreptococcic	
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
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.
Insectiphile	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Nematicide MLC=1 mg/ml	Shoyakugaku Zasshi, 44: 183.
Perfumery Fragrance	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	
Tumorigenic	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.

IRON Root 170.0 220.0 -0.12 *

Activities (6)	
Antiakathisic	Martindale's 29th
Antianemic	Martindale's 29th
Anticanker	
Anticheilitic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antimenorrhagic 100 mg/day/wmn/ori	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Prooxidant	

ISOCARTHAMIDIN Plant -- -- J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.

ISOCARTHAMIDIN Leaf -- -- *

ISOEUGENOL Root -- -- *
Essent.
Oil

Activities (16)	
Allergenic	
AntiTNF	
Antiaggregant IC50=0.72 uM	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.
Antiinflammatory	
Antioxidant IC79=30 ppm	
Antitumor	
Bacteristat	
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Candidistat	
Cytotoxic 25 ug/ml	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.
Fungistat 100 ug/ml	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.
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
Motor-Stimulant	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
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
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.

ISOMARTYNOSIDE Root -- 23.0 *

ISOSCUTELLAREIN Leaf -- 6.0 *

Activities (2)

Antiflu Sanchez, I., Gomez-Garibay, F., Taboada, J., Ruiz, B. H. 2000. Antiviral Effect of Flavonoids on the Dengue Virus. *Phytotherapy Research*, 14(2): 89-92.

Antiviral Sanchez, I., Gomez-Garibay, F., Taboada, J., Ruiz, B. H. 2000. Antiviral Effect of Flavonoids on the Dengue Virus. *Phytotherapy Research*, 14(2): 89-92.

ISOSCUTELLAREIN-8-O-GLUCURONIDE	Leaf	--	30.0	*
ISOWOGONIN	Plant	--	--	J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
KOGANEBANAIN	Root	--	--	Chemical Constituents of Oriental Herbs (3 diff. books)
KOGANEBANANIN	Root	--	--	Chemical Constituents of Oriental Herbs (3 diff. books)
LEUCINE	Root	--	--	*

Activities (2)

Antiencephalopathic Martindale's 29th

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

LEUCOSCEPTOSIDE-A	Root	--	0.013	*
LIGUSTILIDE	Root Essent. Oil	--	--	*

Activities (7)

Antiarrhythmic

Antiasthmatic

Anticonstrictive

Antiprostaglandin

Antispasmodic

Myorelaxant

Tracheorelaxant

LINALOOL	Root Essent. Oil	--	--	*
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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	
Anticarcinogenic 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	

LYSINE

Root

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Activities (4)

Antialkalotic	Martindale's 29th
Antiherpetic 0.5-3 g/day	
Essential	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Hypoarginanemic 250 mg/kg	Martindale's 29th

MAGNESIUM

Root 7170.0 7220.0 2.48 *

Activities (65)

AntiCFS	
AntiLyme 400-1,000 mg	
AntiMS	
AntiPMS 400-800 mg/day/wmn/orl	
AntiPMS 400-800 mg/day/wmn orl	
AntiRaynaud's 280-350 mg/day	
Antiaggregant 400 mg/day	
Antialcoholic	
Antianginal 400 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antianorectic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antianxiety 400 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antiarrhythmic 400 mg/day	
Antiarthritic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antiasthmatic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiatherosclerotic 400 mg/day	
Anticephalagic	
Anticlimacteric 500-750 mg/day	
Anticonvulsant	Facciola, S. 1998. Cornucopia - A Source Book of Edible Plants. Kampong Publications, Vista CA. 713 pp.
Anticoronary 400 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Antidepressant	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antidiabetic 400-800 mg/man/day	
Antidysmenorrheic 100 mg 4 x/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antidometriotic 500 mg/day	
Antienterotic	
Antiepileptic 450 mg/day	
Antifatigue	
Antifibromyalgic 200-300 mg 3x/day	
Antigastrotic	
Antiglaucomic	
Antihyperkinetic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antihypertensive	
Antihypoglycemic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antiinflammatory 100 mg 4 x/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antiinsomniac	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antilithic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antimastalgic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antimenopausal 500-750 mg/day	
Antimigraine 200 mg/day/man	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antimitral-valve-prolapse	
Antinephrolytic	
Antineurotic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antiosteoporotic 500-1,000 mg/day/wmn/orl	
Antiplateau 500-1,000 mg/day	
Antiretinopathic 400 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Antispasmodic	
Antispasmophilic 500 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antistress 500-750 mg/day	
Antistroke 400 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95

Antisyn-drome-X 400 mg/man/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Anxiolytic 500-750 mg/day	
CNS-Depressant	Facciola, S. 1998. Cornucopia - A Source Book of Edible Plants. Kampong Publications, Vista CA. 713 pp.
Calcium-Antagonist	
Cardioprotective	
Diuretic	
Hypocholesterolemic 400 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Hypotensive 260-500 mg/day	
Immunomodulator	
Insulinogenic 400 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Laxative 300-500 mg/day	
Litholytic	
Myorelaxant 100 mg 4 x/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Neurotransmitter	
Tranquilizer 500-750 mg/day	
Uterorelaxant 100 mg 4 x/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Vasodilator	

MALTOL	Root	--	--	*
	Essent.			
	Oil			

Activities (11)	
Anticonvulsant	Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
Antifatigue	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Antioxidant	
CNS-Sedative	Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
FLavor FEMA 5-250	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Fungistat 1,000	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
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
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
Sweetener	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

MANGANESE	Root	18.0	29.0	-0.2	*
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Activities (14)	
AntiPMS	
Antialcoholic	Forest H. Nielsen, USDA, Grand Forks, various publications.
Antianemic	Martindale's 28th
Antiarthritic	
Antidiabetic 3-5 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antidiabetic 10-30 mg/man/day	
Antidiscotic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antidyskinetic	Martindale's 28th
Antiepileptic 450 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antiosteoporotic	
Antiototic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antioxidant	
Antisyn-drome-X 10-30 mg/man/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Hypoglycemic 10-30 mg/man/day	

MELATONIN	Leaf	--	7.0	-0.71	*
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N-DODECANE	Root Essent. Oil	--	--	*
N-EICOSANE	Root Essent. Oil	--	--	*
N-HENEICOSANE	Root Essent. Oil	--	--	*
N-HEPTACOSANE	Root Essent. Oil	--	--	*
N-HEPTADECANE	Root Essent. Oil	--	--	*
N-HEXACOSANE	Root Essent. Oil	--	--	*
Activities (2)				
Bacteristat				
Pesticide				
N-HEXADECANE	Root Essent. Oil	--	--	*
N-NONADECANE	Root Essent. Oil	--	--	*
N-OCTADECANE	Root Essent. Oil	--	--	*
N-PENTACOSANE	Root Essent. Oil	--	--	*
N-PENTADECANE	Root Essent. Oil	--	--	*
N-TETRACOSANE	Root Essent. Oil	--	--	*
N-TETRADECANE	Root Essent. Oil	--	--	*
N-TRICOSANE	Root Essent. Oil	--	--	*
N-TRIDECANE	Root Essent. Oil	--	--	*
NEOBAICALEIN	Plant	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
NEOBAICALEIN	Root	--	--	*
NEOCNIDILIDE	Root Essent. Oil	--	--	*
NONANOIC-ACID	Root Essent. Oil	--	--	*

Activities (2)					
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				
NORWOGONIN	Root	--	10.0		*
O-CRESOL	Root Essent. Oil	--	--		*
Activities (6)					
Allelochemic IC50=0.36 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.				
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.				
Antiseptic	Merck 11th Edition				
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.				
Pesticide					
Rodenticide LD 50=620 cut rat					
OCHRACIN	Root Essent. Oil	--	--		*
OCTANOIC-ACID	Root Essent. Oil	--	--		*
Activities (5)					
Candidicide	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
FLavor FEMA 3-20	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.				
Perfumery	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
Pesticide					
OLEIC-ACID	Root Essent. Oil	--	--		*
Activities (18)					
5-Alpha-Reductase-Inhibitor					
Allergenic					
Alpha-Reductase-Inhibitor					
Anemiagenic					
Antialopecic					
Antiandrogenic					
Antiinflammatory IC50=21 uM					
Antileukotriene-D4 IC50=21 uM					
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.				
Choleretic 5 ml/man					
Dermatitigenic					
FLavor FEMA 1-30	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry				
Hypocholesterolemic	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)				
Insectifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.				
Irritant	Merck 11th Edition				
Percutaneostimulant	Seki, T., Toeda, C., Kawaguchi, T., Juni, K., Sugibayashi, K., and Morimoto, Y. 1990. Enhanced Transdermal Delivery of Zidovudine in Rats and Human Skin. Chem. Pharm. Bull. 38(11): 3086-3089, 1990.				
Perfumery	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry				
Propeic					
OROXYLIN	Root	--	--		*
OROXYLIN-A	Root	110.0	415.0		*

Activities (4)				
Aldose-Reductase-Inhibitor IC50=52 uM rat	Shin, K. H., Chae, Y. J., Chung, M. S., Lee, H. J. 1994. Effect of Flavonoids from Scutellariae radix on Cataract Formation and Polyol Accumulation in Rat Lens. Korean J Pharmacog, 25(1): 41-46.			
Antiaggregant				
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.			
Antithrombic				

OROXYLIN-A Plant -- -- *

Activities (4)				
Aldose-Reductase-Inhibitor IC50=52 uM rat	Shin, K. H., Chae, Y. J., Chung, M. S., Lee, H. J. 1994. Effect of Flavonoids from Scutellariae radix on Cataract Formation and Polyol Accumulation in Rat Lens. Korean J Pharmacog, 25(1): 41-46.			
Antiaggregant				
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.			
Antithrombic				

OROXYLIN-A Stem -- -- *

Activities (4)				
Aldose-Reductase-Inhibitor IC50=52 uM rat	Shin, K. H., Chae, Y. J., Chung, M. S., Lee, H. J. 1994. Effect of Flavonoids from Scutellariae radix on Cataract Formation and Polyol Accumulation in Rat Lens. Korean J Pharmacog, 25(1): 41-46.			
Antiaggregant				
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.			
Antithrombic				

OROXYLIN-A-7-O-GLUCURONIDE Root 1000.0 41000.0 *

OROXYLIN-A-7-O-GLUCURONIDE-METHYL-ESTER Root -- 100.0 *

OROXYLIN-A-GLUCURONIDE Stem -- -- *

OROXYLIN-A-GLUCURONIDE Root -- -- *

P-CRESOL Root -- -- *

P-CRESOL Essent. -- -- *

P-CRESOL Oil -- -- *

Activities (8)				
Allelochemic IC50=1.13 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.			
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.			
Antiseptic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.			
FLavor FEMA <1	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry			
Parasiticide	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Pesticide				
Rodenticide LD50=1,100 cut rat				

PAEONOL Root -- -- *

PAEONOL Essent. -- -- *

PAEONOL Oil -- -- *

Activities (20)

Adaptogenic	
Analgesic	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Antiangregant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antiatherosclerotic	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Antibacterial	
Antiedemic	
Antigastric	
Antiinflammatory	
Antimutagenic	
Antipyretic	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Antistaphylococcic	
Antistress	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antivasculitic	
Diuretic	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Fungicide	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Hemostat	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Hypothermic	
Immunomodulator	
Pesticide	
Sedative	Oriental Materia Medica (three volumes by Dr. Hsu and collaborators)

PALMITIC-ACID Root -- -- *

 Essent.

 Oil

Activities (13)

5-Alpha-Reductase-Inhibitor	
Antiallopecic	
Antiandrogenic	
Antifibrinolytic	Economic & Medicinal Plant Research, 1: 53.
Antioxidant IC40=60	
FLavor FEMA 1	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Hemolytic	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Hypercholesterolemic	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Lubricant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Nematicide	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Pesticide	
Propepic	
Soap	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

PALMITIC-ACID-METHYL-ESTER Root -- -- *

 Essent.

 Oil

PHENOL Root -- -- *

 Essent.

 Oil

Activities (26)

Analgesic	Martindale's 29th
Anesthetic	
AntiMS	Martindale's 29th
Antibacterial	
Antihemorrhoidal	Martindale's 28th
Antihydrocoele	Martindale's 29th
Antiincontinence	Martindale's 29th
Antionychogryphotic	Martindale's 28th
Antiotitic	Martindale's 28th
Antioxidant	Jim Duke's personal files.
Antiprostatic	Martindale's 29th
Antipyruvetic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antiseptic	
Antisinusitic	Martindale's 28th
Antispastic	Martindale's 28th
Antiviral	Martindale's 29th
Antiwrinkle	Martindale's 28th
CNS-Depressant	Martindale's 29th
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Carcinogenic	
Emetic	Martindale's 29th
Fungicide	Martindale's 29th
Hemolytic 5,400 ppm	Martindale's 28th
Pesticide	
Rodenticide LD50=1,040 cut rat	
Vasodilator	

PHENYL-ACETALDEHYDE	Root	--	--	*
	Essent.			
	Oil			

Activities (2)

FLavor FEMA 0.8-10	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

PHENYL-ETHYL-ALCOHOL	Root	--	--	*
	Essent.			
	Oil			

PHENYLALANINE	Root	--	--	*
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Activities (7)

AntiADD 587 mg/day/orl	Martindale's 29th
Antidepressant 50-4,000 mg/day/man	
Antiparkinsonian 200-500 mg/day/man	Martindale's 28th
Antisickling 690 ug/ml	
Antivilitigic 100 mg/kg/day/orl/man	Martindale's 29th
Monoamine-Precursor	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Tremorigenic 1,600-12,600 mg/man/day	Martindale's 28th

PHTHALIC-ACID-DIBUTYL-ESTER	Root	--	--	*
	Essent.			
	Oil			

PHTHALIC-ACID-DIOCTYL-ESTER	Root	--	--	*
	Essent.			
	Oil			

POTASSIUM	Root	6200.0	9120.0	-0.49	*
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Activities (14)				
Angiotensin-Receptor-Blocker				
Antiarrhythmic				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antidepressant				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antifatigue				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antihypertensive				
Antispasmodic				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antistroke				
Anxiolytic				
Beta-Blocker				
Cardioprotective 3,000-5,000 mg				
Cardiotoxic 18,000 mg/man/day				
Diuretic				
Hypotensive				
Vasodilator				

PROLINE	Root	--	--	*
RIVULARIN	Root	--	50.0	*
SALIDROSIDE	Root	--	8.0	*

Activities (1)				
CNS-Stimulant				
SALVIGENIN	Leaf	--	4.0	*
SCUTEBAICALIN	Shoot	--	184.0	*
SCUTELLAREIN	Leaf	--	30.0	*

Activities (7)				
Aldose-Reductase-Inhibitor IC56=10uM; IC10=1uM				Shimizu, M., Ito, T., Terashima, S., Hayashi, T., Arisawa, M., Morita, N., Kurokawa, S., Ito, K., and Hashimoto, Y. 1984. Inhibition of Lens Aldose Reductase by Flavonoids. <i>Phytochemistry</i> , 23: 1885-1888.
Antihemolytic				
Antileukemic IC50=10 uM				Economic & Medicinal Plant Research, 5: 225.
Antioxidant ED=uM				
Antiviral IC50=10 uM				Economic & Medicinal Plant Research, 5: 225.
Cancer-Preventive				Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Phospholipase-A2-Inhibitor				Somasundaram, S., Sadique, J. 1985. Anti-hemolytic Effect of Flavonoidal Glycosides of Clerodendron inerme: An in vitro Study. <i>Fitoterapia</i> 57(2): 103, 1986.

SCUTELLAREIN	Root	--	--	*
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Activities (7)				
Aldose-Reductase-Inhibitor IC56=10uM; IC10=1uM				Shimizu, M., Ito, T., Terashima, S., Hayashi, T., Arisawa, M., Morita, N., Kurokawa, S., Ito, K., and Hashimoto, Y. 1984. Inhibition of Lens Aldose Reductase by Flavonoids. <i>Phytochemistry</i> , 23: 1885-1888.
Antihemolytic				
Antileukemic IC50=10 uM				Economic & Medicinal Plant Research, 5: 225.
Antioxidant ED=uM				
Antiviral IC50=10 uM				Economic & Medicinal Plant Research, 5: 225.
Cancer-Preventive				Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Phospholipase-A2-Inhibitor				Somasundaram, S., Sadique, J. 1985. Anti-hemolytic Effect of Flavonoidal Glycosides of Clerodendron inerme: An in vitro Study. <i>Fitoterapia</i> 57(2): 103, 1986.

SCUTELLARIN	Plant	--	--	*
SCUTELLARIN	Root	--	--	*
SENKYUNOLIDE	Root Essent. Oil	--	--	*
SERINE	Root	--	--	*

Activities (1)				
Cancer-Preventive				Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
SKULLCAPFLAVONE-I	Root	--	--	*
SKULLCAPFLAVONE-II	Stem	--	--	*

Activities (4)					
Aldose-Reductase-Inhibitor 500 uM rat	Shin, K. H., Chae, Y. J., Chung, M. S., Lee, H. J. 1994. Effect of Flavonoids from Scutellariae radix on Cataract Formation and Polyol Accumulation in Rat Lens. Korean J Pharmacog, 25(1): 41-46.				
Antiaggregant					
Cytotoxic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
Thrombolytic					

SKULLCAPFLAVONE-II Root 3.3 863.0 *

Activities (4)					
Aldose-Reductase-Inhibitor 500 uM rat	Shin, K. H., Chae, Y. J., Chung, M. S., Lee, H. J. 1994. Effect of Flavonoids from Scutellariae radix on Cataract Formation and Polyol Accumulation in Rat Lens. Korean J Pharmacog, 25(1): 41-46.				
Antiaggregant					
Cytotoxic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
Thrombolytic					

SODIUM Root 740.0 991.0 -0.05 *

Activities (1)					
Hypertensive	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.				

STEARIC-ACID Root -- -- *

Essent.

Oil

Activities (8)					
5-Alpha-Reductase-Inhibitor					
Cosmetic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
FLavor FEMA 2-4,000	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry				
Hypocholesterolemic	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)				
Lubricant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
Perfumery	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry				
Propepic					
Suppository	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				

STIGMASTEROL Root -- -- *

Activities (12)					
Antihepatotoxic					
Antiinflammatory	Lawrence Review of Natural Products, 1995				
Antinociceptive					
Antiphidic 2.3 mg ipr mus	Economic & Medicinal Plant Research, 5: 363.				
Antioxidant IC33=10 uM					
Antiviral	Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in Artemisia annua. Plant Science, 75: 161-165, 1991.				
Artemicide LC50=110 ppm	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.				
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.				
Estrogenic					
Hypocholesterolemic	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.				
Ovulant					
Sedative					

SUCROSE Root -- -- Chemical Constituents of Oriental Herbs (3 diff. books)

Activities (14)

Aggregant	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antihiccup 1 tsp	Martindale's 29th
Antiphthalmic	Martindale's 29th
Antioxidant	Merck 11th Edition
Atherogenic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Collyrium	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Demulcent	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Flatugenic	Singh, J., Gupta, K., and Arora, S.K. 1993. Changes in the anti-nutritional factors of developing seeds and pod walls of fenugreek (<i>Trigonella foenum graecum</i> L.). <i>Plant Foods for Human Nutrition</i> . 46: 77-84, 1994.
Hypercholesterolemic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Preservative	Merck 11th Edition
Sweetener 1 x sucrose	Merck 11th Edition
Triglycerigenic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Uricogenic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Vulnerary	Martindale's 29th

SYRINGARESINOL-O-BETA-D-GLUCOSIDE Root -- 52.0 *

TERPINEN-4-OL Root -- -- *
Essent.
Oil

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.

TETRADECANOIC-ACID Root -- -- *
Essent.
Oil

THREONINE Root -- -- *

Activities (4)

Antioxidant?	
Antiulcer	Martindale's 29th
Essential	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
FLavor FEMA 1,000	Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry

TRANS-CARYOPHYLLENE	Root	--	--	*
	Essent.			
	Oil			

VANILLIN	Root	--	--	*
	Essent.			
	Oil			

Activities (28)

- Allelochemic IC50=4.26 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.
- Allergenic
- Antianemic
- Anticancer
- Antidrepanocytic
- Antiescherichic 10-100 mmol/l
- Antilactobacillic 10-100 mmol/l
- Antilisteria
- Antimutagenic Economic & Medicinal Plant Research, 6: 235.
- Antioxidant #NAME?
- Antipolio Economic & Medicinal Plant Research, 5: 194.
- Antiradicular 7 x quercetin
- Antisickling
- Antitumor
- Antitumor-Promoter
- Antiviral Economic & Medicinal Plant Research, 5: 194.
- Antiyeast 8-30 mM
- Bacteristat 10-40 mmol/l
- Cancer-Preventive Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
- Candidicide 8-20 mM
- Choleretic Rinzler, C. A. 1990. The Complete Book of Herbs, Spices and Condiments. Facts on File, New York. 199 pp.
- FLavor FEMA 50-20,000 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.
- Immunosuppressant
- Insectifuge? Martindale's 28th
- Irritant
- Perfumery
- Pesticide

VERBASCOSIDE	Root	--	74.0	*
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Activities (20)Aldose-Reductase-Inhibitor
IC50=0.39-15.1 uM

Analgesic 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

Antifeedant

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

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

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

Antileukemic ED50=2.6 ug/ml

Antioxidant ED50=1 uM Seidel, V., Verholle, M., Malard, Y., Tillequin, F., Fruchart, J-C., Duriez, P., Bailleul, F., Teissier, E. 2000. Phenylpropanoids from Ballota nigra L. Inhibit in vitro LDL Peroxidation. Phytotherapy Research, 14(2): 93-98.

Antiseptic

Antistaph

Antitumor

Cytotoxic ED50=2.6 ug/ml

Fungicide MIC=0.4 mg/ml

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

Immunosuppressant

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

PKC-Inhibitor

Pesticide

Phytoalexin

VISCIDULIN-III	Root	--	37.0	*
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VISCIDULIN-III-2'-O-BETA-D-GLUCOPYRANOSIDE	Root	--	100.0	*
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WOGONIN	Plant	--	--	*
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Activities (16)

Aldose-Reductase-Inhibitor IC13=10uM Shimizu, M., Ito, T., Terashima, S., Hayashi, T., Arisawa, M., Morita, N., Kurokawa, S., Ito, K., and Hashimoto, Y. 1984. Inhibition of Lens Aldose Reductase by Flavonoids. Phytochemistry, 23: 1885-1888.

Aldose-Reductase-Inhibitor IC50=48 uM rat Shin, K. H., Chae, Y. J., Chung, M. S., Lee, H. J. 1994. Effect of Flavonoids from Scutellariae radix on Cataract Formation and Polyol Accumulation in Rat Lens. Korean J Pharmacog, 25(1): 41-46.

Antiaggregant

Antibacterial

Antifertility 10 mg/kg/day Singh, P., Jain, S., Bhala, M., Goyal, R.B., Jayaprakash, D., and Lohiya, N.K. Wogonin, 5,7-Dihydroxy-8-methoxyflavone as Oestrogenic and Anti-implantational Agent in the Rat. Phytotherapy Research 4(3): 87, 1990.

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

Antiinflammatory IC50=75 Fitoterapia No.5-1990.

Antileukemic IC50=0.160 ug/ml Life Sciences 55: 1061.

Antioxidant

Antithrombic

Diuretic

Estrogenic 10 mg/kg/day Singh, P., Jain, S., Bhala, M., Goyal, R.B., Jayaprakash, D., and Lohiya, N.K. Wogonin, 5,7-Dihydroxy-8-methoxyflavone as Oestrogenic and Anti-implantational Agent in the Rat. Phytotherapy Research 4(3): 87, 1990.

Lipolytic

Pesticide

Sialidase-Inhibitor Lawrence Review of Natural Products, Jan-93.

Triglycerolytic

WOGONIN	Stem	--	2100.0	*
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Activities (16)

Aldose-Reductase-Inhibitor IC13=10uM	Shimizu, M., Ito, T., Terashima, S., Hayashi, T., Arisawa, M., Morita, N., Kurokawa, S., Ito, K., and Hashimoto, Y. 1984. Inhibition of Lens Aldose Reductase by Flavonoids. <i>Phytochemistry</i> , 23: 1885-1888.
Aldose-Reductase-Inhibitor IC50=48 uM rat	Shin, K. H., Chae, Y. J., Chung, M. S., Lee, H. J. 1994. Effect of Flavonoids from <i>Scutellariae radix</i> on Cataract Formation and Polyol Accumulation in Rat Lens. <i>Korean J Pharmacog</i> , 25(1): 41-46.
Antiaggregant	
Antibacterial	
Antifertility 10 mg/kg/day	Singh, P., Jain, S., Bhala, M., Goyal, R.B., Jayaprakash, D., and Lohiya, N.K. Wogonin, 5,7-Dihydroxy-8-methoxyflavone as Oestrogenic and Anti-implantational Agent in the Rat. <i>Phytotherapy Research</i> 4(3): 87, 1990.
Antiimplantation	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
Antiinflammatory IC50=75	Fitoterapia No.5-1990.
Antileukemic IC50=0.160 ug/ml	Life Sciences 55: 1061.
Antioxidant	
Antithrombic	
Diuretic	
Estrogenic 10 mg/kg/day	Singh, P., Jain, S., Bhala, M., Goyal, R.B., Jayaprakash, D., and Lohiya, N.K. Wogonin, 5,7-Dihydroxy-8-methoxyflavone as Oestrogenic and Anti-implantational Agent in the Rat. <i>Phytotherapy Research</i> 4(3): 87, 1990.
Lipolytic	
Pesticide	
Sialidase-Inhibitor	Lawrence Review of Natural Products, Jan-93.
Triglycerolytic	

WOGONIN Root 34.7 7300.0 *

Activities (16)

Aldose-Reductase-Inhibitor IC13=10uM	Shimizu, M., Ito, T., Terashima, S., Hayashi, T., Arisawa, M., Morita, N., Kurokawa, S., Ito, K., and Hashimoto, Y. 1984. Inhibition of Lens Aldose Reductase by Flavonoids. <i>Phytochemistry</i> , 23: 1885-1888.
Aldose-Reductase-Inhibitor IC50=48 uM rat	Shin, K. H., Chae, Y. J., Chung, M. S., Lee, H. J. 1994. Effect of Flavonoids from <i>Scutellariae radix</i> on Cataract Formation and Polyol Accumulation in Rat Lens. <i>Korean J Pharmacog</i> , 25(1): 41-46.
Antiaggregant	
Antibacterial	
Antifertility 10 mg/kg/day	Singh, P., Jain, S., Bhala, M., Goyal, R.B., Jayaprakash, D., and Lohiya, N.K. Wogonin, 5,7-Dihydroxy-8-methoxyflavone as Oestrogenic and Anti-implantational Agent in the Rat. <i>Phytotherapy Research</i> 4(3): 87, 1990.
Antiimplantation	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
Antiinflammatory IC50=75	Fitoterapia No.5-1990.
Antileukemic IC50=0.160 ug/ml	Life Sciences 55: 1061.
Antioxidant	
Antithrombic	
Diuretic	
Estrogenic 10 mg/kg/day	Singh, P., Jain, S., Bhala, M., Goyal, R.B., Jayaprakash, D., and Lohiya, N.K. Wogonin, 5,7-Dihydroxy-8-methoxyflavone as Oestrogenic and Anti-implantational Agent in the Rat. <i>Phytotherapy Research</i> 4(3): 87, 1990.
Lipolytic	
Pesticide	
Sialidase-Inhibitor	Lawrence Review of Natural Products, Jan-93.
Triglycerolytic	

WOGONIN Leaf -- 40.0 *

Activities (16)

Aldose-Reductase-Inhibitor IC13=10uM	Shimizu, M., Ito, T., Terashima, S., Hayashi, T., Arisawa, M., Morita, N., Kurokawa, S., Ito, K., and Hashimoto, Y. 1984. Inhibition of Lens Aldose Reductase by Flavonoids. <i>Phytochemistry</i> , 23: 1885-1888.
Aldose-Reductase-Inhibitor IC50=48 uM rat	Shin, K. H., Chae, Y. J., Chung, M. S., Lee, H. J. 1994. Effect of Flavonoids from <i>Scutellariae radix</i> on Cataract Formation and Polyol Accumulation in Rat Lens. <i>Korean J Pharmacog</i> , 25(1): 41-46.
Antiaggregant	
Antibacterial	
Antifertility 10 mg/kg/day	Singh, P., Jain, S., Bhala, M., Goyal, R.B., Jayaprakash, D., and Lohiya, N.K. Wogonin, 5,7-Dihydroxy-8-methoxyflavone as Oestrogenic and Anti-implantational Agent in the Rat. <i>Phytotherapy Research</i> 4(3): 87, 1990.
Antiimplantation	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
Antiinflammatory IC50=75	Fitoterapia No.5-1990.
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Lipolytic	
Pesticide	
Sialidase-Inhibitor	Lawrence Review of Natural Products, Jan-93.
Triglycerolytic	

WOGONIN-5-BETA-D-GLUCOSIDE	Root	--	--	*
WOGONIN-7-O-BETA-D-GLUCURONIDE	Root	--	--	*
WOGONIN-7-O-BETA-D-GLUCURONIDE-METHYL-ESTER	Root	--	--	*
WOGONIN-7-O-D-GLUCURONIDE	Root	--	--	*
WOGONIN-7-O-GLUCURONIC-ACID	Tissue Culture	--	--	*
WOGONIN-7-O-GLUCURONIDE	Root	119.0	54000.0	*

Activities (1)

Aldose-Reductase-Inhibitor IC50=40 uM rat	Shin, K. H., Chae, Y. J., Chung, M. S., Lee, H. J. 1994. Effect of Flavonoids from <i>Scutellariae radix</i> on Cataract Formation and Polyol Accumulation in Rat Lens. <i>Korean J Pharmacog</i> , 25(1): 41-46.
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WOGONIN-7-O-GLUCURONIDE	Stem	--	33200.0	*
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Activities (1)

Aldose-Reductase-Inhibitor IC50=40 uM rat	Shin, K. H., Chae, Y. J., Chung, M. S., Lee, H. J. 1994. Effect of Flavonoids from <i>Scutellariae radix</i> on Cataract Formation and Polyol Accumulation in Rat Lens. <i>Korean J Pharmacog</i> , 25(1): 41-46.
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WOGONIN-7-O-GLUCURONIDE-METHYL-ESTER	Root	--	30.0	*
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Activities (1)

Aldose-Reductase-Inhibitor IC50=39 uM rat	Shin, K. H., Chae, Y. J., Chung, M. S., Lee, H. J. 1994. Effect of Flavonoids from <i>Scutellariae radix</i> on Cataract Formation and Polyol Accumulation in Rat Lens. <i>Korean J Pharmacog</i> , 25(1): 41-46.
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WOGONIN-GLUCURONIDE	Root	--	--	*
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WOGONOSIDE	Root	--	39700.0	*
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ZINC	Root	17.0	18.0	-0.27	*
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Activities (77)

ACE-Inhibitor	
Analgesic	
AntiBPH 25-60 mg/day	
AntiCrohn's	Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine.</i> Avon Books, New York. 509pp.
AntiHIV	
Antiacne 135 mg/day	
Antiacrodermatitic 8-34 mg/day/orl/chd	Martindale's 29th
Antialcoholic	
Antialopepic	Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine.</i> Avon Books, New York. 509pp.
Antialzheimeran 50 mg/day	Werbach, M. 1993. <i>Healing with Food.</i> Harper Collins, New York, 443 pp.
Antiangiogenic	
Antianorexic	Martindale's 29th

Antiarthritic 50 mg/3x/day/orl/man	
Anticanker 100 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Anticataract 30 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Anticoeliac	Martindale's 28th
Anticold 50 mg	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Anticoilitic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Anticoronary 30 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Antidandruff	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antidementia	
Antidiabetic 30 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Antidote (Cadmium)	Let's Live, May 1989.
Antidysgeuzic	
Antieczemic 150 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antiencephalopathic	Martindale's 29th
Antiepileptic 100 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antifibrotic 30 mg	
Antifuruncular 45 mg/3x/day/man	Martindale's 28th
Antihangover 15 mg	
Antiherpetic? 25-60 mg/day	
Antiimpotence	Martindale's 29th
Antiinfective 50 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antiinfertility 60 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antiinsomniac	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antileptic	Martindale's 29th
Antileukonychic	
Antilymphomic	
Antimaculitic	
Antimetastatic	
Antineuropathic	
Antinyctalopic	
Antiobesity 30 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Antiosteoporotic	
Antiperiodontitic	
Antiplaque	Martindale's 29th
Antiprolactin	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiprostatic 50 mg/man/day/orl	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antirheumatic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antiseptic 50 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antispare-Tire 30 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Antistomatitic 50 mg/man/3x/day	Martindale's 28th
Antisyndrome-X 30 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Antitinnitic 60-120 mg/day	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antitriglyceride 30 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Antiulcer 50 mg/3x/day/man	Martindale's 28th
Antiulcer 88 mg/rat/day/15 days	
Antiviral?	Martindale's 29th
Astringent	Martindale's 28th
Collagenic	
Copper-Antagonist	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Deodorant	Martindale's 29th
Detoxicant (Alcohol)	
Ergogenic	
Hypotensive 30 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Immunomodulator	
Immunostimulant	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Immunosuppressant 300 mg/day/6 wks/orl/man	Martindale's 29th
Insulinogenic 30 mg/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95
Leptingenic 30-60 mg/man/day	Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95

Mucogenic	Li, K.M. Effect of zinc sulphate on acetic acid-induced gastric ulceration in rats. <i>J. Pharm. Pharmacol.</i> 42: 657-659, 1990.
NF-kB-Inhibitor	
Pesticide	
Spermigenic 60 mg/day	Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp.
Testosteronigenic 60 mg/day	Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp.
Trichomonicide	Martindale's 29th
Vulnerary	Martindale's 28th