

Activity	Chemical Count	Reference
(-)-Chronotropic	1	Duke, 1992 *
(-)-Inotropic	1	Duke, 1992 *
Aldose-Reductase-Inhibitor	1	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Allelopathic	1	Holappa, L.D., and Blum*, U. 1991. Effects of Exogenously Applied Ferulic Acid, a Potential Allelopathic Compound, on Leaf Growth, Water Utilization, and Endogenous Abscisic Acid Levels of Tomato, Cucumber, and Bean. J. of Chemical Ecology, 17(5): 865.
Anabolic	1	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Analgesic	2	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.
Antiaggregant	1	Ozaki, Y. and Ma, J-P. 1989. Inhibitory Effects of Tetramethylpyrazine and Ferulic Acid on Spontaneous Movement of Rat Uterus in Situ. Chem. Pharm. Bull. 38(6): 1620-1623, 1990.
Antiallergic	1	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Antiarrhythmic	1	Duke, 1992 *
Antiarthritic	1	Duke, 1992 *
Antibacterial	1	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Anticancer (Colon)	1	Duke, 1992 *
Anticancer (Forestomach)	1	Duke, 1992 *
Anticancer (Liver)	1	Duke, 1992 *
Anticancer (Skin)	1	Duke, 1992 *
Anticarcinogenic	1	Duke, 1992 *
Antidermatitic	1	Duke, 1992 *

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<u>Antidysmenorrheic</u>	1	Duke, 1992 *
<u>Antiestrogenic</u>	1	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
<u>Antigonadotrophic</u>	1	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
<u>Antihepatotoxic</u>	1	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
<u>Antiherpetic</u>	1	Duke, 1992 *
<u>Antiinflammatory</u>	3	Hagerman, A.E. Tannin-Protein Interactions. Phenolic Compounds in Food and Their Effects on Health, Ch.19.
<u>Antileukemic</u>	1	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.
<u>Antimitotic</u>	1	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
<u>Antimutagenic</u>	2	Ki Soon Rhee. Oilseed Food Ingredients Used To Minimize Oxidative Flavor Deterioration in Meat Products. Phenolic Compounds in Food and Their Effects on Health, Ch.18.
<u>Antineoplastic</u>	1	Duke, 1992 *
<u>Antineuropathic</u>	1	Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
<u>Antinitrosaminic</u>	1	Ki Soon Rhee. Oilseed Food Ingredients Used To Minimize Oxidative Flavor Deterioration in Meat Products. Phenolic Compounds in Food and Their Effects on Health, Ch.18.
<u>Antioxidant</u>	2	Duke, 1992 *
<u>Antiradicular</u>	1	Duke, 1992 *

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<u>Antiserotonin</u>	1	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
<u>Antispasmodic</u>	1	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<u>Antithrombic</u>	1	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<u>Antitumor</u>	1	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
<u>Antitumor (Colon)</u>	1	Duke, 1992 *
<u>Antitumor (Forestomach)</u>	1	Duke, 1992 *
<u>Antitumor (Liver)</u>	1	Duke, 1992 *
<u>Antitumor (Skin)</u>	1	Duke, 1992 *
<u>Antitumor-Promoter</u>	1	Cancer Research, 48: 5941.
<u>Antiviral</u>	2	Vlietinck, A.J. and Dommisse, R.A. eds. 1985. Advances in Medicinal Plant Research. Wiss. Verlag. Stuttgart.
<u>Arteriodilator</u>	1	Ozaki, Y. and Ma, J-P. 1989. Inhibitory Effects of Tetramethylpyrazine and Ferulic Acid on Spontaneous Movement of Rat Uterus in Situ. Chem. Pharm. Bull. 38(6): 1620-1623, 1990.
<u>Calcium-Antagonist</u>	1	Iwu, M.M. 1993. Handbook of African Medicinal Plants. CRC Press, Boca Raton, FL 435 pp.
<u>Cancer-Preventive</u>	2	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
<u>Candidicide</u>	1	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
<u>Cardiac</u>	1	Ozaki, Y. and Ma, J-P. 1989. Inhibitory Effects of Tetramethylpyrazine and Ferulic Acid on Spontaneous Movement of Rat Uterus in Situ. Chem. Pharm. Bull. 38(6): 1620-1623, 1990.

Activity	Chemical Count	Reference
<u>Cholagogue</u>	1	Pharmazie, 46: 156, 1991.
<u>Choleretic</u>	1	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.
<u>Cytotoxic</u>	1	Duke, 1992 *
<u>FLavor</u>	1	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
<u>Fungicide</u>	1	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
<u>Hepatoprotective</u>	1	Mills, Simon and Bone, Kerry. 2000. Phytotherapy. Churchill Livingston, Edinburgh.
<u>Hepatotropic</u>	1	Duke, 1992 *
<u>Herbicide</u>	1	Angewandte Botanik 68(5/6)=1994. Page 195.
<u>Hydrocholerectic</u>	1	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
<u>Hypocholesterolemic</u>	1	Duke, 1992 *
<u>Hypolipidemic</u>	1	Duke, 1992 *
<u>Immunostimulant</u>	1	Economic & Medicinal Plant Research, 1: 124.
<u>Insectifuge</u>	1	Tunon, H., Thorsell, W., and Bohlin, L. 1993. Mosquito Repelling Activity of Compounds Occurring in <i>Achillea millefolium</i> L. (Asteraceae). Economic Botany 48(2): 111-120, 1994.
<u>Juvabional</u>	2	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
<u>Lipolytic</u>	1	Duke, 1992 *
<u>Metal-Chelator</u>	1	McEvily, A.J., Iyengar, R., and Gross, A.T. Inhibition of Polyphenol Oxidase by Phenolic Compounds. Phenolic Compounds in Food and Their Effects on Health, Ch.25.

Activity	Chemical Count	Reference
<u>Myorelaxant</u>	1	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.
<u>Ornithine-Decarboxylase-Inhibitor</u>	1	Hagerman, A.E. Tannin-Protein Interactions. Phenolic Compounds in Food and Their Effects on Health, Ch.19.
<u>Oviposition-Stimulant</u>	1	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
<u>Pesticide</u>	3	Duke, 1992 *
<u>Phagocytotic</u>	1	Duke, 1992 *
<u>Preservative</u>	1	Merck 11th Edition
<u>Prostaglandigenic</u>	1	Duke, 1992 *
<u>Prostaglandin-Synthesis-Inhibitor</u>	1	Xu, L. N., Yu, W. G., Tian, J. Y., Liu, Q. Y. 1990. Effect of Sodium Ferulate on Arachidonic Acid Metabolism. Yao Hsueh Hsueh Pao, 25(6): 412-416.
<u>Proteinogenic</u>	1	Duke, 1992 *
<u>Sunscreen</u>	1	Chemical Marketing Reporter; a weekly tabloid, 9/10/92.
<u>Uterosedative</u>	1	Ozaki, Y. and Ma, J-P. 1989. Inhibitory Effects of Tetramethylpyrazine and Ferulic Acid on Spontaneous Movement of Rat Uterus in Situ. Chem. Pharm. Bull. 38(6): 1620-1623, 1990.