

Activity	Chemical Count	Reference
<u>5-Alpha-Reductase-Inhibitor</u>	2	Duke, 1992 *
<u>Abortifacient</u>	1	Duke, 1992 *
<u>Adrenergic</u>	1	Merck 11th Edition
<u>Allergenic</u>	1	Duke, 1992 *
<u>Alpha-Reductase-Inhibitor</u>	1	Duke, 1992 *
<u>Analgesic</u>	1	Duke, 1992 *
<u>Androgenic</u>	1	Duke, 1992 *
<u>Anemiagenic</u>	1	Duke, 1992 *
<u>Angiogenic</u>	1	Duke, 1992 *
<u>Anorexic</u>	1	Martindale's 28th
<u>Antiacne</u>	1	Duke, 1992 *
<u>Antiadenomic</u>	1	Merck 11th Edition
<u>Antiaggregant</u>	1	Duke, 1992 *
<u>Antiallergic</u>	1	Duke, 1992 *
<u>Antiallopecic</u>	2	Duke, 1992 *
<u>Antialzheimeran</u>	1	Ringbom, T., Seguar, L., Noreen, Y., Perera, P., Bohlin, L. 1998. Ursolic Acid from Plantago major, a Selective Inhibitor of Cyclooxygenase-2 Catalyzed Prostaglandin Biosynthesis. <i>J. Nat. Prod.</i> , 61(10): 1212-1215.
<u>Antianaphylactic</u>	1	Economic & Medicinal Plant Research, 6: 189.
<u>Antiandrogenic</u>	3	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
<u>Antiarrhythmic</u>	2	Duke, 1992 *
<u>Antiarteriosclerotic</u>	1	Duke, 1992 *
<u>Antiarthritic</u>	2	Economic & Medicinal Plant Research, 6: 189.
<u>Antiatherosclerotic</u>	1	Duke, 1992 *
<u>Antibacterial</u>	4	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.

Activity	Chemical Count	Reference
<u>Anticancer</u>	1	Ringbom, T., Seguar, L., Noreen, Y., Perera, P., Bohlin, L. 1998. Ursolic Acid from Plantago major, a Selective Inhibitor of Cyclooxygenase-2 Catalyzed Prostaglandin Biosynthesis. <i>J. Nat. Prod.</i> , 61(10): 1212-1215.
<u>Anticancer (Breast)</u>	1	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.
<u>Anticancer (Cervix)</u>	1	Duke, 1992 *
<u>Anticancer (Colon)</u>	1	Ringbom, T., Seguar, L., Noreen, Y., Perera, P., Bohlin, L. 1998. Ursolic Acid from Plantago major, a Selective Inhibitor of Cyclooxygenase-2 Catalyzed Prostaglandin Biosynthesis. <i>J. Nat. Prod.</i> , 61(10): 1212-1215.
<u>Anticancer (Lung)</u>	1	Duke, 1992 *
<u>Anticarcinomic</u>	2	Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46.
<u>Anticariogenic</u>	2	Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp.
<u>Anticholestatic</u>	1	Shukla, B., Visen, P.K.S., Patnaik, G.K., Tripathi, S.C., Srimal, R.C., Dayal, R., and Dobhal, P.C. Hepatoprotective Activity in the Rat of Ursolic Acid Isolated from Eucalyptus Hybrid. <i>Phytotherapy Research</i> 6: 74-79, 1992.
<u>Anticomplement</u>	2	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. <i>Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D)</i> , 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
<u>Anticorony</u>	1	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
<u>Antidiabetic</u>	1	Chemical Constituents of Oriental Herbs (3 diff. books)

Activity	Chemical Count	Reference
<u>AntiEBV</u>	1	Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp.
<u>Antieczemic</u>	1	Economic & Medicinal Plant Research, 6: 189.
<u>Antiedemic</u>	3	Duke, 1992 *
<u>Antiescherichic</u>	1	Duke, 1992 *
<u>Antiestrogenic</u>	1	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
<u>Antifeedant</u>	1	Jacobson, M., <i>Glossary of Plant-Derived Insect Deterrents</i> , CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
<u>Antifertility</u>	2	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
<u>Antifibrinolytic</u>	1	Economic & Medicinal Plant Research, 1: 53.
<u>Antifibrosarcomic</u>	1	Duke, 1992 *
<u>Ant gingivitic</u>	1	Duke, 1992 *
<u>Antigonadotrophic</u>	1	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
<u>Antigranular</u>	1	Duke, 1992 *
<u>Antihepatotoxic</u>	3	Duke, 1992 *
<u>Antihistaminic</u>	2	Economic & Medicinal Plant Research, 6: 189.
<u>AntiHIV</u>	2	Duke, 1992 *
<u>Antihyperlipidemic</u>	2	Duke, 1992 *
<u>Antihyperlipoproteinaemic</u>	1	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
<u>Antiinflammatory</u>	6	Duke, 1992 *
<u>Antiischemic</u>	1	Duke, 1992 *
<u>Antileishmanic</u>	1	Duke, 1992 *

Activity	Chemical Count	Reference
<u>Antileukemic</u>	3	Duke, 1992 *
<u>Antileukotriene</u>	1	Duke, 1992 *
<u>Antileukotriene-D4</u>	2	Duke, 1992 *
<u>Antilymphomeric</u>	2	Duke, 1992 *
<u>Antimalarial</u>	2	Duke, 1992 *
<u>Antimenorrhagic</u>	1	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
<u>Antimetastatic</u>	1	Duke, 1992 *
<u>AntiMS</u>	1	Economic & Medicinal Plant Research, 6: 189.
<u>Antimutagenic</u>	2	Duke, 1992 *
<u>Antinephritic</u>	2	Duke, 1992 *
<u>Antinociceptive</u>	1	Duke, 1992 *
<u>Antiobesity?</u>	1	Internat. J. Oriental Med. 16: 4.
<u>Antiphidic</u>	2	Economic & Medicinal Plant Research, 5: 363.
<u>Antioxidant</u>	5	Balanehru, S. and Nagarajan, B. 1992. Intervention of Adriamycin Induced Free Radical Damage. Biochemistry International 28(4): 735-744, 1992.
<u>Antiperiodontic</u>	1	Duke, 1992 *
<u>Antiperoxidant</u>	2	Duke, 1992 *
<u>AntiPGE2</u>	1	Duke, 1992 *
<u>Antiplaque</u>	1	Duke, 1992 *
<u>Antiplasmodial</u>	2	Duke, 1992 *
<u>Antiprogestational</u>	1	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
<u>Antiproliferative</u>	1	Duke, 1992 *
<u>Antiprostaglandin</u>	1	Duke, 1992 *
<u>Antiprostatadenomic</u>	1	Merck 11th Edition

Activity	Chemical Count	Reference
<u>Antiprostatic</u>	2	Duke, 1992 *
<u>Antipyretic</u>	1	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.
<u>Antisarcomic</u>	1	Duke, 1992 *
<u>Antiseptic</u>	1	Duke, 1992 *
<u>Antistaphylococcic</u>	1	Duke, 1992 *
<u>AntiTGF-beta</u>	2	Duke, 1992 *
<u>Antithromboxane</u>	1	Duke, 1992 *
<u>Antitrypanosomic</u>	1	Duke, 1992 *
<u>Antitumor</u>	2	Cancer Research, 54: 701, 1994.
<u>Antitumor (brain)</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>Antitumor (Breast)</u>	3	Duke, 1992 *
<u>Antitumor (Cervix)</u>	2	Duke, 1992 *
<u>Antitumor (Colon)</u>	2	Duke, 1992 *
<u>Antitumor (Kidney)</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>Antitumor (Lung)</u>	3	Duke, 1992 *
<u>Antitumor (Ovary)</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>Antitumor (Pancreas)</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>Antitumor (Stomach)</u>	1	Duke, 1992 *
<u>Antitumor-Promoter</u>	1	Planta Medica, 57: A56, 1991.

Activity	Chemical Count	Reference
<u>Antiulcer</u>	2	Shukla, B., Visen, P.K.S., Patnaik, G.K., Tripathi, S.C., Srimal, R.C., Dayal, R., and Dobhal, P.C. Hepatoprotective Activity in the Rat of Ursolic Acid Isolated from Eucalyptus Hybrid. Phytotherapy Research 6: 74-79, 1992.
<u>Antiviral</u>	4	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.
<u>Apoptotic</u>	1	Duke, 1992 *
<u>Aromatase-Inhibitor</u>	2	Duke, 1992 *
<u>Artemicide</u>	2	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.
<u>Beta-Blocker</u>	2	Duke, 1992 *
<u>Beta-Glucuronidase-Inhibitor</u>	2	Duke, 1992 *
<u>Cancer-Preventive</u>	7	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
<u>Candidicide</u>	2	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
<u>Carcinogenic</u>	1	Science News, 146: 421.
<u>Cardioprotective</u>	2	Duke, 1992 *
<u>Cardiotonic</u>	2	Duke, 1992 *
<u>Cardiovascular</u>	1	Borchard, R. E., Barnes, C. D., and Eltherton, L. G. 1991. Drug Dosage in Laboratory Animals: A Handbook. (3rd Ed.) The Telford Press, Inc., P. O. Box 287, Caldwell NJ 07006.
<u>Caspase-8-Inducer</u>	1	Duke, 1992 *
<u>Choleretic</u>	2	Duke, 1992 *
<u>CNS-Depressant</u>	1	Duke, 1992 *
<u>Comedolytic</u>	1	Duke, 1992 *
<u>COX-2-Inhibitor</u>	2	Duke, 1992 *

Activity	Chemical Count	Reference
<u>Cyclooxygenase-Inhibitor</u>	2	Ringbom, T., Seguar, L., Noreen, Y., Perera, P., Bohlin, L. 1998. Ursolic Acid from Plantago major, a Selective Inhibitor of Cyclooxygenase-2 Catalyzed Prostaglandin Biosynthesis. <i>J. Nat. Prod.</i> , 61(10): 1212-1215.
<u>Cytotoxic</u>	1	Duke, 1992 *
<u>Dermatitigenic</u>	1	Duke, 1992 *
<u>Diuretic</u>	2	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<u>Elastase-Inhibitor</u>	2	Duke, 1992 *
<u>Estrogenic</u>	2	Duke, 1992 *
<u>Febrifuge</u>	1	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.
<u>FLavor</u>	1	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
<u>Gonadotrophic</u>	1	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
<u>Hepatoprotective</u>	4	Duke, 1992 *
<u>Herbistat</u>	1	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
<u>Hormonal</u>	1	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
<u>Hypertensive</u>	1	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.
<u>Hypocholesterolemic</u>	5	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. <i>CRC Handbook of Lipids in Human Nutrition</i> . CRC Press. Boca Raton, FL. 233 pp.)

Activity	Chemical Count	Reference
<u>Hypoglycemic</u>	2	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.
<u>Hypolipemic</u>	1	Duke, 1992 *
<u>Hypolipidemic</u>	1	Duke, 1992 *
<u>Hypotensive</u>	2	Duke, 1992 *
<u>Immunomodulator</u>	3	Economic & Medicinal Plant Research, 6: 189.
<u>Insectifuge</u>	3	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
<u>Irritant</u>	1	Merck 11th Edition
<u>Leucocytogenic</u>	2	Duke, 1992 *
<u>Lipoxygenase-Inhibitor</u>	1	Duke, 1992 *
<u>Metastatic</u>	1	Science News, 146: 421.
<u>MMP-9-Inhibitor</u>	1	Duke, 1992 *
<u>Nematicide</u>	1	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
<u>Neurotoxic</u>	1	Borchard, R. E., Barnes, C. D., and Eltherton, L. G. 1991. Drug Dosage in Laboratory Animals: A Handbook. (3rd Ed.) The Telford Press, Inc., P. O. Box 287, Caldwell NJ 07006.
<u>NF-kB-Inhibitor</u>	1	Duke, 1992 *
<u>Ornithine-Decarboxylase-Inhibitor</u>	1	Duke, 1992 *
<u>Ovulant</u>	1	Duke, 1992 *
<u>Percutaneostimulant</u>	1	Seki, T., Toeda, C., Kawaguchi, T., Juni, K., Sugibayashi, K., and Morimoto, Y. 1990. Enhanced Transdermal Delivery of Zidovudine in Rats and Human Skin. <i>Chem. Pharm. Bull.</i> 38(11): 3086-3089, 1990.
<u>Perfumery</u>	1	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
<u>Pesticide</u>	5	Duke, 1992 *

Activity	Chemical Count	Reference
<u>Phagocytotic</u>	1	Duke, 1992 *
<u>Piscicide</u>	2	Duke, 1992 *
<u>Potassium-Sparing</u>	1	Iwu, M.M. 1993. Handbook of African Medicinal Plants. CRC Press, Boca Raton, FL 435 pp.
<u>Propecic</u>	2	Duke, 1992 *
<u>Prostaglandin-Synthesis-Inhibitor</u>	1	Duke, 1992 *
<u>Protease-Inhibitor</u>	1	Duke, 1992 *
<u>Protisticide</u>	1	Chemical Express, 7: 285, 1992.
<u>Quinone-Reductase-Inducer</u>	1	Lee, S. K., Song, Y., Mata-Greenwood, E., Kelloff, G. J., Steele, V. E., Pezzuto, J. M. 1999. Modulation of in vitro Biomarkers of the Carcinogenic Process by Chemopreventive Agents. Anticancer Res., 19: 35-44.
<u>Sedative</u>	2	Duke, 1992 *
<u>Sodium-Sparing</u>	1	Iwu, M.M. 1993. Handbook of African Medicinal Plants. CRC Press, Boca Raton, FL 435 pp.
<u>Spermicide</u>	1	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
<u>Sympathomimetic</u>	1	Duke, 1992 *
<u>TOPO-2-Inhibitor</u>	1	Duke, 1992 *
<u>Trypanocide</u>	1	Duke, 1992 *
<u>Ubiquiot</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>Ulcerogenic</u>	1	Duke, 1992 *
<u>Uterotonic</u>	1	Duke, 1992 *
<u>Vasoconstrictor</u>	1	Duke, 1992 *
<u>Vasopressor</u>	3	Duke, 1992 *