

List of All Chemicals

P Gloriosa superba (Liliaceae)

Common name(s)

Glory Lily

How used

Medicinal

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

Chemical	Part	All	Low PPM	High PPM	StdDev	*Reference
2-DEMETHYLCOLCHICINE	Bulb		--	--		*
Activities (1)						
Antitubulin IC50=3.7 uM						
2-DEMETHYLLUMICOLCHICINE	Plant		--	--		*
3-DESMETHYLCOLCHICINE	Leaf		--	--		*
Activities (2)						
Anticarcinomic ED50=24 ppb						
Antileukemic						
6-METHOXY-SALICYLIC-ACID	Bulb		--	--		*
BENZOIC-ACID	Bulb		--	--		*
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						
BETA-LUMICOLCHICONE	Bulb		--	--		*
CHOLINE	Bulb		--	--		*

Activities (20)

Antialzheimeran 5-16 g/man/day	
Antichoreic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Anticirrhotic 6,000 mg/man/day	
Anticystinuric	
Antidementia	
Antidiabetic	
Antidyskinetic 150-200 mg/kg/man/day	Martindale's 28th
Antihomocysteine	
Antimanic 15-30 g/man/day/orl	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antinociceptive	
Antisteatotic	
Cardiodepressant	
Cerebrotonic	
Cholinergic	Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
Hepatoprotective	
Hypotensive	
Ileorelaxant	
Lipotropic	
Memorigenic	
Parasympathomimetic (1/1,000th acetylcholine)	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.

CHRYSOPHANIC-ACID

Bulb

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Activities (6)

Antispasmodic	
Calcium-Antagonist	
Fungicide	
Keratitogenic	Mitchell, J. and Rook, A.J. 1923. Botanical Dermatology: plants and plant products injurious to the skin. Vancouver: Greengrass, 1979. xiii, 787 p.: ill.
Occuloirritant	Mitchell, J. and Rook, A.J. 1923. Botanical Dermatology: plants and plant products injurious to the skin. Vancouver: Greengrass, 1979. xiii, 787 p.: ill.
Pesticide	

COLCHICINE

Bulb

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Activities (44)

AntiBehcet's	Martindale's 28th
AntiHIV EC50=0.01 uM	
AntiPaget's 600 ug/3x/day/man	Martindale's 29th
Antiamyloidotic	Martindale's 29th
Antiarthritic	
Antibacterial	
Anticirrhotic 1-2 mg/man/day	Martindale's 28th
Antidermatitic	Martindale's 29th
Antierythemic	Martindale's 29th
Antiherpetic	
Antiinflammatory	
Antileukemic	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.
Antimalarial 500 ug/10x/day/man	Martindale's 28th
Antimelanomic ED50=0.18 ug/ml	J. Ethnopharmacology, 32: 117.
Antimeningitic 500 ug/2x/man/day	Martindale's 28th
Antimitotic 2 mg/kg scu mus	Borchard, R. E., Barnes, C. D., and Eltherton, L. G. 1991. <i>Drug Dosage in Laboratory Animals: A Handbook</i> . (3rd Ed.) The Telford Press, Inc., P. O. Box 287, Caldwell NJ 07006.
Antiperocarditis 500-1,000 ug/man/day	
Antipodagric 3-6mg man/day/	Martindale's 28th
Antipolyserositic 500-600 ug/2-3 x day/man/	Martindale's 28th
Antipsoriac	Martindale's 28th
Antipyretic	
Antirheumatic	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.
Antisarcomic ED50=0.047 ug/ml	J. Ethnopharmacology, 32: 117.
Antithrombocytopenic 600 ug/2-4x/man/day	Martindale's 29th
Antitrypanosomic	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.
Antitubulin IC50=2.4 uM	
Antitumor (Breast) ED50=0.022 ug/ml	J. Ethnopharmacology, 32: 117.
Antitumor (Colon) ED50=0.0071 ug/ml	J. Ethnopharmacology, 32: 117.
Antitumor (Lung) ED50=0.043 ug/ml	J. Ethnopharmacology, 32: 117.
Antivasculitic 600 ug/2x/man/day	Martindale's 29th
CNS-Paralytic	
CNS-Stimulant	
Carcinogenic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Cardioactive 15 mg/kg scu rbt	Borchard, R. E., Barnes, C. D., and Eltherton, L. G. 1991. <i>Drug Dosage in Laboratory Animals: A Handbook</i> . (3rd Ed.) The Telford Press, Inc., P. O. Box 287, Caldwell NJ 07006.
Cytotoxic IC50=0.018 uM	
Emetic	Cooper-Driver, G. A., <i>Chemical substances in plants toxic to animals</i> , pp. 213-47 in Rechcigl, M., Jr., ed. <i>CRC Handbook of Naturally Occurring Food Toxicants</i> , CRC Press, Boca Raton, 1983, 339 pp.
Hepatoprotective	
Hypertensive	
Irritant	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Pesticide	
Purgative	
Respiradepressant	
Sympathomimetic	
Uricosuric	

DEMETHYLCOLCHICINE	Bulb	--	--	*
GAMMA-RESORCYLIC-ACID-MONOMETHYL-ETHER	Bulb	--	--	*
GLORIOSINE	Bulb	--	--	*
GLORIOSOL	Bulb	--	--	*
GLUCOSE	Bulb	--	--	*

Activities (7)

Acetylcholinergic

Antiedemic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antihepatotoxic	Merck 11th Edition
Antiketotic	Merck 11th Edition
Antivariocose	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Hyperglycemic	Merck 11th Edition
Memory-Enhancer	Science News, 138: 189, 1990.

LUMICOLCHICINE	Bulb	--	--	*
N-FORMYL-DESACETYL-BETA-LUMICOLCHICINE	Bulb	--	--	*
N-FORMYL-DESACETYL-GAMMA-LUMICOLCHICINE	Bulb	--	--	*
N-FORMYL-DESACETYLCOLCHICINE	Bulb	--	--	*

Activities (1)

Antitumor

O-DESMETHYL-N-FORMYL-DESACETYL-BETA-LUMICOLCHICINE	Bulb	--	--	*
O-DESMETHYLLUMICOLCHICINE	Bulb	--	--	*
PHYTOSTEROLS	Plant	--	--	*

Activities (2)Antiprostatotic
Hypocholesterolemic

SALICYLIC-ACID	Bulb	--	--	*
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Activities (34)

Aldose-Reductase-Inhibitor 724.6 uM	Toyomizu, M., Sugiyama, S., Jin, R. L., Nakatsu, T. 1993. Alpha-Glucosidase and Aldose Reductase Inhibitors: Constituents of Cashew, <i>Anacardium occidentale</i> , Nut Shell Liquids. <i>Phytotherapy Research</i> , 7(3): 252-254.
Analgesic	
Antiarthritic	Madaus, G. 1976. <i>Lehrbuch der Biologischen Hilfsmittel</i> . Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus.
Antibacterial	Martindale's 28th
Antidandruff	A.L.L. Hunting. <i>Encyclopedia of Shampoo Ingredients</i> . Micelle Press, Cranford NJ. 467 pp.
Antidermatotic	
Antieczemic	
Antiichthyosic	Martindale's 29th
Antiinflammatory	Pharmazie, 46: 156, 1991.
Antineuralgic	Madaus, G. 1976. <i>Lehrbuch der Biologischen Hilfsmittel</i> . Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus.
Antioncychomycotic	Martindale's 29th
Antioxidant	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp.
Antiperiodic	
Antipodagric	
Antipsoriac	
Antipyretic	
Antirheumatic	
Antiseborrheic	
Antiseptic	A.L.L. Hunting. <i>Encyclopedia of Shampoo Ingredients</i> . Micelle Press, Cranford NJ. 467 pp.
Antitumor	
Antitympanitic	Merck 11th Edition
COX-2-Inhibitor	Newmark, T. M. and Schulick, P. 2000. <i>Herbal Cox-2 Inhibition - Nature's Challenge to Arthritis, Cancer & Alzheimer's Disease</i> . Hohm Press, Prescott AZ.
Cancer-Preventive	Stitt, P. A. <i>Why George Should Eat Broccoli</i> . Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Comedolytic	Martindale's 29th
Cyclooxygenase-Inhibitor	
Dermatitigenic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Fungicide MIC 1,000 ug/ml	
Hypoglycemic	<i>Economic & Medicinal Plant Research</i> , 6: 158.
Insectifuge	Tunon, H., Thorsell, W., and Bohlin, L. 1993. Mosquito Repelling Activity of Compounds Occurring in <i>Achillea millefolium</i> L. (<i>Asteraceae</i>). <i>Economic Botany</i> 48(2): 111-120, 1994.
Keratolytic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Pesticide	
Thermogenic 130 ppm	
Tineacide	Martindale's 29th
Ulcerogenic	

SITOSTEROL	Bulb	--	--	*
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STARCH	Bulb	--	--	*
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Activities (5)

Absorbent	Martindale's 29th
Antidote (Iodine)	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Antinesidioblastosic	Martindale's 29th
Emollient	Martindale's 29th
Poultice	Martindale's 29th

STIGMASTEROL	Bulb	--	--	*
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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 <i>Artemisia annua</i> . <i>Plant Science</i> , 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 <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.
Estrogenic	
Hypocholesterolemic	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.
Ovulant	
Sedative	