

List of All Chemicals

Camellia japonica (Theaceae)

Common name(s)

Camellia; Common Camellia; Camelia (Sp.); Kamelie (Ger.); Camelia (Fr., Port.); Rose du Japon (Fr.); Tsubaki (Jap.); Japanese Tea

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
(+)-CATECHOL	Leaf	--	--		Wealth of India.
Activities (4)					
Antihepatic					Martindale's 29th
Antiseptic					
Fatal					Martindale's 29th
Pesticide					
(-)-EPICATECHOL	Leaf	--	--		Wealth of India.
18-BETA-HYDROXY-28-NOROLEAN-12,17-DIEN-16-ONE	Flower	--	--		Wealth of India.
24-METHYL-CHOLEST-7-ENOL	Seed	--	--		Wealth of India.
24-METHYLENE-DAMMARENOL	Seed	--	--		Wealth of India.
3-BETA-18-BETA-DIHYDROXY-28-NOROLEAN-12-EN-16-ONE	Flower	--	--		Wealth of India.
3-BETA-HYDROXY-28-NOROLEAN-12,17-DIEN-16-ONE	Flower	--	--		Wealth of India.
ALPHA-AMYRIN	Seed	--	--		Wealth of India.
Activities (10)					
Analgesic					
Antiedemic IC43=40 mg/kg ipr rat					
Antiinflammatory IC71=1,000 ppm ori					
Antinociceptive					
Antitumor					
Antiulcer					
Cytotoxic 50-400					
Gastroprotective					
Hepatoprotective					
Insectifuge					
ALPHA-SPINASTEROL	Seed	--	--		Wealth of India.
Activities (2)					
Antiinflammatory >Phenylbutazone					
Antipyretic					
ARABINOSE	Seed	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
BETA-AMYRIN	Seed	--	--		Wealth of India.

Activities (9)				
Analgesic				
Antiedemic IC27=40 mg/kg ipr rat				
Antiinflammatory				
Antinociceptive				
Antiulcer				
Gastroprotective				
Hepatoprotective				
Larvicide				
Mosquitocide				

BETA-AMYRIN Leaf -- -- Wealth of India.

Activities (9)				
Analgesic				
Antiedemic IC27=40 mg/kg ipr rat				
Antiinflammatory				
Antinociceptive				
Antiulcer				
Gastroprotective				
Hepatoprotective				
Larvicide				
Mosquitocide				

BUTYROSPERMOL Seed -- -- Wealth of India.

CAMELLIAGENIN-A Seed -- -- Wealth of India.

CAMELLIAGENIN-B Seed -- -- Wealth of India.

CAMELLIAGENIN-C Seed -- -- Wealth of India.

CAMELLIDIN-I Leaf -- -- *

Activities (2)				
Fungicide	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Pesticide				

CAMELLIDIN-II Leaf -- -- *

Activities (3)				
Antifeedant	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.			
Fungicide	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Pesticide				

CAMELLIN Seed -- -- Wealth of India.

Activities (1)				
Digitalic				

CYANDIN-3-P-COUMAROYLGLUCOSIDE Flower -- -- Wealth of India.

CYANIDIN-3-GLUCOSIDE Flower -- -- Wealth of India.

DAMMARADIENOL Seed -- -- Wealth of India.

Activities (3)				
Antiherpetic				
Antiviral				
Pesticide				

DELTA-7-AVENASTEROL Seed -- -- Wealth of India.

Activities (1)				
Antioxidant				

DELTA-7-STIGMASTEROL Seed -- -- Wealth of India.

Activities (8)

AntiHIV

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.

Antioxidant

Antitumor

Cardiotoxic

Immunostimulant 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.

Interferonogenic 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.

Reverse-Transcriptase-Inhibitor

EUPHOL

Seed -- --

Wealth of India.

Activities (1)

Abortifacient Singla*, A.K. Pathak, K. 1989. *Phytoconstituents of Euphorbia species*. *Fitoterapia* 61(6): 483-508, 1990.

FAT

Seed 640000.0 670000.0 2.13 Wealth of India.

FLAVAN-3-OL

Flower -- -- Wealth of India.

GENIN-D

Flower -- -- Wealth of India.

GERMANICOL

Seed -- -- Wealth of India.

HYACINTHIN

Flower -- -- Wealth of India.

LUPEOL

Seed -- -- Wealth of India.

Activities (21)

AntiEBV

Antiangiogenic 30-50 ug/ml

Antiedemic

Antiflu

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

Antiinflammatory 1/3 indomethacin

Antilithic 25 mg/kg/day

Antimalarial IC50=46.8 ug/ml Khalid, S.A., Farouk, A., Geary**, T.G., and Jensen, J.B. 1985. Potential Antimalarial Candidates From African Plants: An In Vitro Approach Using *Plasmodium falciparum**. *Journal of Ethnopharmacology*, 15: 201-209, 1986.

Antioxalate 25 mg/kg/day

Antioxidant 25 mg/kg/day

Antiperoxidant 25 mg/kg/day

Antiprostaglandin

Antirheumatic

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

Antiurethrotic

Antiviral

Cytotoxic 50-500 ppm

FPTase-Inhibitor IC50=65 ug/ml

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

Pesticide

TOPO-2-Inhibitor IC50=10.4 uM

OLEIC-ACID

Seed 554880.0 580890.0 3.8 Wealth of India.

Activities (18)

5-Alpha-Reductase-Inhibitor

Allergenic

Alpha-Reductase-Inhibitor

Anemiagenic

Antiallopecic

Antiandrogenic

Antiinflammatory
IC50=21 uMAntileukotriene-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

Propecic

PECTIN Flower -- -- Wealth of India.

Activities (24)

Antiatheromic 15 g/man/day Cerda, J.J. Pectin in Health and Disease. HortScience, 25(12): 1485, 1990.

Antibacterial

Antidiabetic 10 g/man/day/orl

Antidiarrheic Merck 11th Edition

Antienteritic

Antigallstone

Antigastritic

Antilithic

Antimetastatic

Antimutagenic

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

Antitumor (Colon)

Antitumor (Prostate)

Antitussive

Antiulcer

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

Chemopreventive

Demulcent

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

Hemostat

Hypocholesterolemic

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

Peristaltic

Pesticide

PEDUNCULAGIN Flower -- -- *

Activities (9)				
Antihepatotoxic	Okuda, T., Yoshida, T., and Hatano, T. Antioxidant Effects of Tannins and Related Polyphenols. Phenolic Compounds in Food and Their Effects on Health, Ch.7 p.93.			
Antilipolytic	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.			
Antioxidant				
Antiperoxidant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Beta-Adrenergic Receptor Blocker 10 uM	Zhu, M., Phillipson, J. D., Greengrass, P. M., Bowery, N. E., Cai, Y. 1997. Plant Polyphenols: Biologically Active Compounds or Non-Selective Binders to Protein? Phytochemistry, 44(3): 441-447.			
Topoisomerase-I-Inhibitor 0.03 ug/ml	Ooishi, K., Kato, J., Hayamizu, K. 1994. Topoisomerase Inhibitors Containing Tannins, Especially Pedunculagin, for Treatment of Cancer. Patent, Japan Kokai Tokyo Koho-06 72,885. 7pp.			
Topoisomerase-II-Inhibitor IC100=0.5 uM	Kashiwada, Y., Nonaka, G. I., Nishioka, I., Lee, J. H., Bori, I., Fukushima, Y., Bastow, K. F., Lee, K. H. 1993. Tannins as Potent Inhibitors of DNA Topoisomerase II in vitro. J Pharm Sci, 82: 487-492.			
Xanthine-Oxidase-Inhibitor IC50=18 uM	Hatano, T., Yasuhara, T., Yoshihara, R., Agata, I., Noro, T., and Okuda, T. 1989. Effects of Interaction of Tannins with Co-existing Substances.VII. Inhibitory Effects of Tannins Related Polyphenols on Xanthine Oxidase. Chem. Pharm. Bull. 38(5): 1224-1229			

PSI-TARAXASTEROL Seed -- -- Wealth of India.

TARAXASTEROL Seed -- -- Wealth of India.

Activities (2)				
Antiedemic				
Antiinflammatory 1/2 indomethacin				

TARAXEROL Seed -- -- Wealth of India.

Activities (2)				
Antisecretory	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Antiulcer	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			

TELLIMIGRANDIN-I Flower -- -- Wealth of India.

THEOBROMINE Leaf -- -- Wealth of India.

Activities (21)				
Anorexic	Martindale's 28th			
Antiasthmatic 10 mg/kg/orl/man	Martindale's 29th			
Anticellulitic				
Arteriodilator				
Bronchodilator	Merck 11th Edition			
CNS-Stimulant				
Cardiotonic	Merck 11th Edition			
Diuretic 300-600 mg/man/day	Martindale's 28th			
Emetic	Martindale's 28th			
Fetotoxic 100 mg/kg				
Herbicide IC41=100 ppm	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.			
Myocardiotonic				
Myorelaxant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Myostimulant	Martindale's 29th			
Pesticide				
Stimulant				
Teratogenic 100 mg/kg				
Vasodilator	Merck 11th Edition			
cAMP-Inhibitor IC50=0.06 mg/ml	Schussler, M., Fricke, U., Nikolov, N., and Holzl, J. 1991. Comparison of the Flavonoids Occurring in Crataegus species and Inhibition of 3',5'-Cyclic Adenosine Monophosphate Phosphodiesterase. Plant Medica 57: Suppl Issue 2. p.A-133.			
cAMP-Phosphodiesterase-Inhibitor	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).			
cGMP-Phosphodiesterase-Inhibitor	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).			

THEOBROMINE Flower -- -- *

