

# List of All Chemicals

## P Alangium lamarckii (Alangiaceae)

### 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 <div>All ▾</div>	Low PPM	High PPM	StdDev	*Reference
1',2'-DEHYDROTUBULOSINE	Fruit	--	--		Itoh, A., Ikuta, Y., Tanahashi, T., Nagakura, N. 2000. Two Alangium Alkaloids from Alangium lamarckii. J. Natural Products, 63(5): 723-725.
10-O-DEMETHYLCEPHAELINE	Fruit	--	--		Itoh, A., Ikuta, Y., Tanahashi, T., Nagakura, N. 2000. Two Alangium Alkaloids from Alangium lamarckii. J. Natural Products, 63(5): 723-725.
2'-N-(1''-DEOXY-1''-BETA-D-FRUCTOPYRANOSYL)-CEPHAELINE	Fruit	--	--		Itoh, A., Ikuta, Y., Tanahashi, T., Nagakura, N. 2000. Two Alangium Alkaloids from Alangium lamarckii. J. Natural Products, 63(5): 723-725.
ALANGINE	Fruit	--	--		Itoh, A., Ikuta, Y., Tanahashi, T., Nagakura, N. 2000. Two Alangium Alkaloids from Alangium lamarckii. J. Natural Products, 63(5): 723-725.
ALANGISIDE	Fruit	--	--		Itoh, A., Ikuta, Y., Tanahashi, T., Nagakura, N. 2000. Two Alangium Alkaloids from Alangium lamarckii. J. Natural Products, 63(5): 723-725.
BETULIN	Seed	--	2222.2		Jim Duke's personal files.
Activities (13)					
AntiHIV 6.1 uM					
Anticarcinomic					
Antifeedant					
Antiflu					
Antiinflammatory	Recio, M., et al. 1994. Investigations on the Steroidal Anti-Inflammatory Activity of Triterpenoids from Diospyros leucomelas*. Planta Medica, 61: 9.				
Antitumor	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
Antiviral 6.1 uM					
Aphidifuge	Lugemwa, F.N., Huang, F-Y., Bentley, M.D., Mendel, M.J., and Alford, A.R. 1990. A Heliothis zea Antifeedant from the Abundant Birchbark Triterpene Betulin. J. Agric. Food Chem. 38(2): 493-494.				
Cytotoxic 600 ppm					
Cytotoxic 8.6 uM					
Hypolipemic					
Prostaglandin-Synthesis-Inhibitor IC50=119 uM	Huang, C., Tunon, H., Bohlin, L. 1995. Anti-Inflammatory Compounds Isolated from Menyanthes trifoliata L. Yao Hsueh Hsueh Pao, 30(8): 621-626.				
Topoisomerase-II-Inhibitor IC50=38.6 uM					
BETULINIC-ACID	Seed	--	--		Pavannasasivam, G., & M.U.S. Sultanbawa. 1974. Betulinic acid in the Dilleniaceae and a review of its natural distribution. Phytochem. 13:2002-2006.

Activities (22)				
Anthelmintic				
AntiHIV EC50=2.0 ug/ml	Kashiwada, Y., et. al. 1998. Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids. J. Nat. Prod., 61 (9): 1090-1095.			
AntiHIV IC50=6.5 ug/ml				
AntiHIV 14.8 uM				
Antibacterial				
Anticancer	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Anticarcinomic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Antiedemic				
Antiinflammatory	Recio, M., et al. 1994. Investigations on the Steroidal Anti-Inflammatory Activity of Triterpenoids from Diospyros leucomelas*. Planta Medica, 61: 9.			
Antileukemic				
Antimalarial IC50=19-26 ug/ml				
Antimelanomic	New York Times, 3/28/95.			
Antinociceptive				
Antiplasmodial IC50=19-26 ug/ml				
Antitumor	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Antiviral 14.8 uM				
Apoptotic				
Cytotoxic 50-100 ppm	Biosyn. Prod. Cancer Chemotherapy (Petit et al)			
Cytotoxic 16.4 uM				
Phospholipase-A2-Inhibitor				
Prostaglandin-Synthesis-Inhibitor 200 ug/ml	Dunstan, C. A., Liu, B., Welch, C. J., Perera, P., Bohlin, L. 1998. Alphitol, a Phenolic Substance from Alphonidia zizyphoides which Inhibits Prostaglandin Biosynthesis in vitro. Phytochemistry, 48(3): 495-497.			
Prostaglandin-Synthesis-Inhibitor IC50=101 uM	Huang, C., Tunon, H., Bohlin, L. 1995. Anti-Inflammatory Compounds Isolated from Menyanthes trifoliata L. Yao Hsueh Hsueh Pao, 30(8): 621-626.			

CEPHAELINE	Fruit	--	--	Itoh, A., Ikuta, Y., Tanahashi, T., Nagakura, N. 2000. Two Alangium Alkaloids from Alangium lamarckii. J. Natural Products, 63(5): 723-725.
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Activities (7)				
Amebicide	Merck 11th Edition			
Antimalarial IC50=0.011-0.027 uM	Rukunga, G. and Simons, A. J. 2006. The Potential of Plants as a Source of Antimalarial Agents - A Review. Africa Herbal Antimalaria Meeting. PlantaPhile Publications, Berlin. 72 pp.			
Antiplasmodial IC50=0.011-0.027 uM	Rukunga, G. and Simons, A. J. 2006. The Potential of Plants as a Source of Antimalarial Agents - A Review. Africa Herbal Antimalaria Meeting. PlantaPhile Publications, Berlin. 72 pp.			
Emetic	Martindale's 28th			
Expectorant	Merck 11th Edition			
Pesticide				
Protisticide				

DEOXYTUBULOSINE	Fruit	--	--	Itoh, A., Ikuta, Y., Tanahashi, T., Nagakura, N. 2000. Two Alangium Alkaloids from Alangium lamarckii. J. Natural Products, 63(5): 723-725.
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ISOCEPHAELINE	Fruit	--	--	Itoh, A., Ikuta, Y., Tanahashi, T., Nagakura, N. 2000. Two Alangium Alkaloids from Alangium lamarckii. J. Natural Products, 63(5): 723-725.
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Activities (1)				
HIF-1-Inhibitor IC50=1.1 muM				

ISOTUBULOSINE	Fruit	--	--	Itoh, A., Ikuta, Y., Tanahashi, T., Nagakura, N. 2000. Two Alangium Alkaloids from Alangium lamarckii. J. Natural Products, 63(5): 723-725.
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NEOCEPHAELINE	Fruit	--	--	Itoh, A., Ikuta, Y., Tanahashi, T., Nagakura, N. 2000. Two Alangium Alkaloids from Alangium lamarckii. J. Natural Products, 63(5): 723-725.
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PROTEMETINOL	Fruit	--	--	Itoh, A., Ikuta, Y., Tanahashi, T., Nagakura, N. 2000. Two Alangium Alkaloids from Alangium lamarckii. J. Natural Products, 63(5): 723-725.
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PROTOEMETINE	Fruit	--	--	Itoh, A., Ikuta, Y., Tanahashi, T., Nagakura, N. 2000. Two Alangium Alkaloids from Alangium lamarckii. J. Natural Products, 63(5): 723-725.
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PSYCHOTRINE	Fruit	--	--	Itoh, A., Ikuta, Y., Tanahashi, T., Nagakura, N. 2000. Two Alangium Alkaloids from Alangium lamarckii. J. Natural Products, 63(5): 723-725.
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Activities (2)				
Antimalarial IC50=0.1-0.4 uM	Rukunga, G. and Simons, A. J. 2006. The Potential of Plants as a Source of Antimalarial Agents - A Review. Africa Herbal Antimalaria Meeting. PlantaPhile Publications, Berlin. 72 pp.			
Antiplasmodial IC50=0.1-0.4 uM	Rukunga, G. and Simons, A. J. 2006. The Potential of Plants as a Source of Antimalarial Agents - A Review. Africa Herbal Antimalaria Meeting. PlantaPhile Publications, Berlin. 72 pp.			
SALSOLINE	Fruit	--	--	Itoh, A., Ikuta, Y., Tanahashi, T., Nagakura, N. 2000. Two Alangium Alkaloids from Alangium lamarckii. J. Natural Products, 63(5): 723-725.
Activities (3)				
Antihypertensive				
Cardioactive 1-3 mg/kg				
Hypotensive	UNESCO. 1960. Medicinal Plants of the Arid Zones. eds.(botany) I.C. Chopra, B.K. Abrol and K.L. Hands; eds (pharmacology), R. Paris and G. Dillemann UNESCO, Place de Fontenoy, Paris 7E. 96 pp.			
TUBULOSINE	Fruit	--	--	Itoh, A., Ikuta, Y., Tanahashi, T., Nagakura, N. 2000. Two Alangium Alkaloids from Alangium lamarckii. J. Natural Products, 63(5): 723-725.
Activities (5)				
Amebicide				
Antimalarial IC50=0.006-0.011 uM	Rukunga, G. and Simons, A. J. 2006. The Potential of Plants as a Source of Antimalarial Agents - A Review. Africa Herbal Antimalaria Meeting. PlantaPhile Publications, Berlin. 72 pp.			
Antiplasmodial IC50=0.006-0.011 uM	Rukunga, G. and Simons, A. J. 2006. The Potential of Plants as a Source of Antimalarial Agents - A Review. Africa Herbal Antimalaria Meeting. PlantaPhile Publications, Berlin. 72 pp.			
Antitumor				
Cytotoxic				