

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Terminalia bellirica

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	PHYLLEMBLIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	GALACTOSE	Seed				Singh, P., Sharma, S. 1997. Triterpenoid Constituents of the Seeds of Diospyros melanoxylon, Tecomella undulata and Terminalia bellirica. J. Indian Chem. Soc. 74 6: 504-505.
0	DOTRIACONTAN-2-OL	Fruit				Ali, M. 1992. Chemical Examination of Fruits of Terminalia belerica Roxb. Orient. J. Chem. 8 3: 255-256.
0	3,6-DIGALLOYLGLUCOSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
47	BETA-SITOSTEROL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	FRUCTOSE	Seed				Singh, P., Sharma, S. 1997. Triterpenoid Constituents of the Seeds of Diospyros melanoxylon, Tecomella undulata and Terminalia bellirica. J. Indian Chem. Soc. 74 6: 504-505.
0	HEXAHYDROXY-DIPHENACYL-HEPTAHYDROXY-DIPHENACYLATE	Fruit				Ali, M., Bhutani, K. K. 1991. Occurrence of Hexahydroxydiphenic Acid Ester in Terminalia belerica Fruits. Indian J. Nat. Prod. 7 1: 16-17.
0	BETA-GLUCOGALLIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	FRIEDELIN	Seed				Singh, P., Sharma, S. 1997. Triterpenoid Constituents of the Seeds of Diospyros melanoxylon, Tecomella undulata and Terminalia bellirica. J. Indian Chem. Soc. 74 6: 504-505.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	ETHYL-GALLATE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BELLERICOSIDE	Stem Bark		100.0		Nandy, A. K., Podder, G., Sahu, N. P., Mahato, S. B. 1989. Triterpenoids and Their Glucosides from Terminalia bellerica. Phytochemistry 28 10:2769-2772.
0	BELLERICANIN	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
9	OXALIC-ACID	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	7-HYDROXY-3',4'-(METHYLENEDIOXY)-FLAVAN	Pericarp				Valsaraj, R., Pushpangadan, P., Smitt, U. W., Adeersen, A., Christensen, S. B., Sittie, A., Nyman, U., Nielsen, C., Oslen, C. E. 1997. New Anti-HIV-1, Antimalarial, and Antifungal Compounds from Terminalia bellerica. J. Nat. Prod. 60 7: 739-742.
51	ELLAGIC-ACID	Wood				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BELLERICASIDE B	Stem Bark		150.0		Mahato, S. B., Nandy, A. K., Kundu, A. P. 1992. Pentacyclic Triterpenoid Sapogenols and Their Glycosides from Terminalia bellerica. Tetrahedron 48 12: 2488-2494.
0	ANOLIGAN-B	Pericarp				Valsaraj, R., Pushpangadan, P., Smitt, U. W., Adeersen, A., Christensen, S. B., Sittie, A., Nyman, U., Nielsen, C., Oslen, C. E. 1997. New Anti-HIV-1, Antimalarial, and Antifungal Compounds from Terminalia bellerica. J. Nat. Prod. 60 7: 739-742.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
51	ELLAGIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BELLERICASIDE A	Stem Bark		200.0		Mahato, S. B., Nandy, A. K., Kundu, A. P. 1992. Pentacyclic Triterpenoid Sapogenols and Their Glycosides from Terminalia bellerica. Tetrahedron 48 12: 2488-2494.
51	ELLAGIC-ACID	Fruit				--
18	MANNITOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	N-TRITRIACONTANE	Fruit				Ali, M. 1992. Chemical Examination of Fruits of Terminalia bellerica Roxb. Orient. J. Chem. 8 3: 255-256.
51	ELLAGIC-ACID	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BELLERICAGENIN B	Stem Bark		200.0		Mahato, S. B., Nandy, A. K., Kundu, A. P. 1992. Pentacyclic Triterpenoid Sapogenols and Their Glycosides from Terminalia bellerica. Tetrahedron 48 12: 2488-2494.
0	THANNILIGNAN	Pericarp				Valsaraj, R., Pushpangadan, P., Smitt, U. W., Adeersen, A., Christensen, S. B., Sittie, A., Nyman, U., Nielsen, C., Oslen, C. E. 1997. New Anti-HIV-1, Antimalarial, and Antifungal Compounds from Terminalia bellerica. J. Nat. Prod. 60 7: 739-742.
0	TRITRIACONTAN-9-ONE	Fruit				Ali, M. 1992. Chemical Examination of Fruits of Terminalia bellerica Roxb. Orient. J. Chem. 8 3: 255-256.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	CORILAGIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BELLERICAGENIN A	Stem Bark		15.0		Mahato, S. B., Nandy, A. K., Kundu, A. P. 1992. Pentacyclic Triterpenoid Sapogenols and Their Glycosides from Terminalia bellerica. Tetrahedron 48 12: 2488-2494.
2	TERMILIGNAN	Pericarp				Valsaraj, R., Pushpangadan, P., Smitt, U. W., Adeersen, A., Christensen, S. B., Sittie, A., Nyman, U., Nielsen, C., Oslen, C. E. 1997. New Anti-HIV-1, Antimalarial, and Antifungal Compounds from Terminalia bellerica. J. Nat. Prod. 60 7: 739-742.
0	SAPONIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
7	GLUCOSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	N-TETRATRIACONTANE	Fruit				Ali, M. 1992. Chemical Examination of Fruits of Terminalia bellerica Roxb. Orient. J. Chem. 8 3: 255-256.
6	CHEBULINIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BELLERIC ACID	Stem Bark				--
0	RHAMNOSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	SUCROSE	Seed				Singh, P., Sharma, S. 1997. Triterpenoid Constituents of the Seeds of Diospyros melanoxylon, Tecomella undulata and Terminalia bellirica. J. Indian Chem. Soc. 74 6: 504-505.
1	GALACTOSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
9	OXALIC-ACID	Bark				Bharadwaj, K., Chandra, V. 1983. Comparative Incidence of Calcium Oxalate as a Source of Oxalic Acid in Barks of Seven Species of Terminalia. Biol. Mem. 8 1/2: 54-62.
0	CHEBULIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ARJUNGLUCOSIDE I	Stem Bark		166.6		Nandy, A. K., Podder, G., Sahu, N. P., Mahato, S. B. 1989. Triterpenoids and Their Glucosides from Terminalia bellerica. Phytochemistry 28 10:2769-2772.
3	MANNOSE	Seed				Singh, P., Sharma, S. 1997. Triterpenoid Constituents of the Seeds of Diospyros melanoxylon, Tecomella undulata and Terminalia bellirica. J. Indian Chem. Soc. 74 6: 504-505.
8	FRUCTOSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HENTRIACONTAN-16-ONE	Stem Bark				Bajpai, N., Tiwari, J. S. 1994. A Note on the Phytochemical Investigation of Terminalia Genus. J. Indian Chem. Soc. 71 10: 643.
0	ARJUNGENIN	Stem Bark				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	GLUCOSE	Seed				Singh, P., Sharma, S. 1997. Triterpenoid Constituents of the Seeds of Diospyros melanoxylon, Tecomella undulata and Terminalia bellirica. J. Indian Chem. Soc. 74 6: 504-505.
62	GALLIC-ACID	Fruit				--
0	WATER	Fruit		61000.0	-3.0853017214408456	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	SUGARS	Leaf	38400.0	53500.0	-0.9496931479933499	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	ASH	Leaf	49000.0	80000.0	-0.6845191217694889	--
35	TANNIN	Bark	14000.0	70000.0	-0.6218356919104978	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	PHOSPHORUS	Leaf		2700.0	-0.41791805519896574	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PROTEIN	Leaf	86000.0	171180.0	-0.40567315920702685	--
0	FAT	Leaf		47000.0	-0.18854946591393063	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	WATER	Leaf	751000.0	780000.0	-0.13788388644338306	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
28	CALCIUM	Leaf		20800.0	0.16144588299166054	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	FIBER	Leaf	74000.0	186000.0	0.3025387654482874	--
27	LINOLEIC-ACID	Seed	72475.0	202930.0	0.820890770924275	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	PALMITIC-ACID	Seed	29500.0	82600.0	1.0047049642797696	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
35	TANNIN	Fruit	170000.0	214000.0	1.152911794404943	--
0	CARBOHYDRATES	Leaf		787000.0	1.3929031844789515	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
18	OLEIC-ACID	Seed	108025.0	301470.0	1.4991601957510154	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	PROTEIN	Seed		409000.0	1.5585297136421843	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
8	STEARIC-ACID	Seed	40000.0	112000.0	1.8646296411916774	--
0	FAT	Seed	250000.0	700000.0	2.2892590174415544	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	STARCH	Leaf	99800.0	127000.0	2.4401501282208553	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.