

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Terminalia bellirica

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
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	TRITRIACONTAN-9-ONE	Fruit				Ali, M. 1992. Chemical Examination of Fruits of Terminalia belerica Roxb. Orient. J. Chem. 8 3: 255-256.
0	THANNILIGNAN	Pericarp				Valsaraj, R., Pushpangadan, P., Smitt, U. W., Adeersen, A., Christensen, S. B., Sittie, A., Nyman, U., Nielsen, C., Oslén, C. E. 1997. New Anti-HIV-1, Antimalarial, and Antifungal Compounds from Terminalia bellirica. J. Nat. Prod. 60 7: 739-742.
2	TERMILIGNAN	Pericarp				Valsaraj, R., Pushpangadan, P., Smitt, U. W., Adeersen, A., Christensen, S. B., Sittie, A., Nyman, U., Nielsen, C., Oslén, C. E. 1997. New Anti-HIV-1, Antimalarial, and Antifungal Compounds from Terminalia bellirica. J. Nat. Prod. 60 7: 739-742.
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.
35	TANNIN	Fruit	170000.0	214000.0	1.152911794404943	--
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.
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.
8	STEARIC-ACID	Seed	40000.0	112000.0	1.8646296411916774	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.
0	SAPONIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	RHAMNOSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PROTEIN	Seed		409000.0	1.5585297136421843	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PROTEIN	Leaf	86000.0	171180.0	-0.40567315920702685	--
2	PHYLLEMBLIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	PHOSPHORUS	Leaf		2700.0	-0.41791805519896574	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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.
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.
9	OXALIC-ACID	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
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.

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0	N-TRITRIACONTANE	Fruit				Ali, M. 1992. Chemical Examination of Fruits of Terminalia belerica Roxb. Orient. J. Chem. 8 3: 255-256.
0	N-TETRATRIACONTANE	Fruit				Ali, M. 1992. Chemical Examination of Fruits of Terminalia belerica Roxb. Orient. J. Chem. 8 3: 255-256.
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.
18	MANNITOL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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.
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	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.
7	GLUCOSE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	GALACTOSE	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.
8	FRUCTOSE	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.
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.
15	FIBER	Leaf	74000.0	186000.0	0.3025387654482874	--
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.
0	FAT	Leaf		47000.0	-0.18854946591393063	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
5	ETHYL-GALLATE	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
51	ELLAGIC-ACID	Leaf				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
51	ELLAGIC-ACID	Fruit				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
51	ELLAGIC-ACID	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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	DOTRIACONTAN-2-OL	Fruit				Ali, M. 1992. Chemical Examination of Fruits of Terminalia bellerica Roxb. Orient. J. Chem. 8 3: 255-256.
13	CORILAGIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
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	CHEBULIC-ACID	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	CARBOHYDRATES	Leaf		787000.0	1.3929031844789515	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
28	CALCIUM	Leaf		20800.0	0.16144588299166054	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
47	BETA-SITOSTEROL	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	BETA-GLUCOGALLIN	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.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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	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.
0	BELLERICANIN	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
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	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.
0	BELLERIC ACID	Stem Bark				--
0	ASH	Leaf	49000.0	80000.0	-0.6845191217694889	--
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.
0	ARJUNGENIN	Stem Bark				--
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
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., Oslén, C. E. 1997. New Anti-HIV-1, Antimalarial, and Antifungal Compounds from Terminalia bellerica. J. Nat. Prod. 60 7: 739-742.
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.