

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in Terminalia bellirica

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	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.
8	STEARIC-ACID	Seed	40000.0	112000.0	1.8646296411916774	--
0	PROTEIN	Seed		409000.0	1.5585297136421843	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	CARBOHYDRATES	Leaf		787000.0	1.3929031844789515	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
35	TANNIN	Fruit	170000.0	214000.0	1.152911794404943	--
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.
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.
15	FIBER	Leaf	74000.0	186000.0	0.3025387654482874	--
28	CALCIUM	Leaf		20800.0	0.16144588299166054	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.
0	FAT	Leaf		47000.0	-0.18854946591393063	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	PROTEIN	Leaf	86000.0	171180.0	-0.40567315920702685	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	PHOSPHORUS	Leaf		2700.0	-0.41791805519896574	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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.
0	ASH	Leaf	49000.0	80000.0	-0.6845191217694889	--
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	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	THANNILIGNAN	Pericarp				Valsaraj, R., Pushpangadan, P., Smitt, U. W., Adeersen, A., Christensen, S. B., Sittie, A., Nyman, U., Nielsen, C., Oslon, 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.
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.
0	SAPONIN	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

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2	TERMILIGNAN	Pericarp				Valsaraj, R., Pushpangadan, P., Smitt, U. W., Adeersen, A., Christensen, S. B., Sittie, A., Nyman, U., Nielsen, C., Oslon, C. E. 1997. New Anti-HIV-1, Antimalarial, and Antifungal Compounds from Terminalia bellerica. J. Nat. Prod. 60 7: 739-742.
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.
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.

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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				--
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				--
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.
2	PHYLLEMBLIN	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
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.
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.

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0	BELLERIANIN	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.
9	OXALIC-ACID	Fruit				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
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.
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				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
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.