

Presence of Compounds in Erva Tostão (*Boerhaavia diffusa*)

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Alanine	Proteid	Root	India	Not stated	N05735
Arachidic Acid	Lipid	Root	Nepal	Not stated	H05892
Aspartic Acid	Proteid	Root Aerial Parts Root	India India India	Not stated Not stated Not stated	N05515 N05515 N05735
Behenic Acid	Lipid	Root	Nepal	Not stated	H05892
Boeravinone A	Flavonoid	Root Root	Japan Nepal	00.01042% 00.01041%	H04035 H05892
Boeravinone B	Flavonoid	Root Root	Japan Nepal	00.00342% 00.00341%	H04035 H05892
Boeravinone C	Flavonoid	Root Root Root	Nepal Nepal Japan	Not stated Not stated 00.01075%	H04332 H07130 H04035
Boeravinone D	Flavonoid	Root	Nepal	00.00014%	H08171
Boeravinone E	Flavonoid	Root	Nepal	00.001%	H08171
Boeravinone F	Flavonoid	Root	Nepal	00.00037%	H08171
Boerhaavia Diffusa Virus Inhibitor	Proteid	Root	India	Not stated	N05735
Boerhaavic Acid	Alkene	Entire Plant	India	Not stated	A12577
Borhavine	Xanthone	Root	India	00.01%	H11420
Borhavone	Flavonoid	Root	India	Not stated	H11420
Campesterol	Steroid	Root	Nepal	Not stated	H05892
Daucosterol	Steroid	Root	Nepal	Not stated	H05892
Ecdysone,beta	Steroid	Root	India	00.05%	N15507

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Flavone, 5-7-dihydroxy-3'-4'-dimethoxy-6-8-dimethyl	Flavonoid	Root	India	00.02000%	M06281
Fructose	Carbohydrate	Root	India	Not stated	A11384
Galactose	Carbohydrate	Root	India	Not stated	N05735
Glucose	Carbohydrate	Root Root	India India	Not stated Not stated	N05735 A11384
Glutamic Acid	Proteid	Root Aerial Parts	India India	Not stated Not stated	N05515 N05515
Glutamine	Proteid	Root	India	Not stated	N05735
Glycerol	Lipid	Root	Not stated	00.04166%	M27372
Glycine	Proteid	Root	India	Not stated	N05735
Hentriacontane, n	Alkane	Root	India	Not stated	A11384
Heptadecyclic Acid	Lipid	Root	Nepal	Not stated	H05892
Histidine	Proteid	Root	India	Not stated	N05735
Hypoxanthine-9-l-arabinofuranoside	Alkaloid	Entire Plant Root Root	Pakistan Nigeria (cult) Nigeria	Not stated Not stated Not stated	A11493 T11238 N17896
Kno3	Inorganic	Entire Plant	India	00.52%	A11787
Leucine	Proteid	Root	India	Not stated	N05735
Liriodendrin	Lignan	Root	Not stated	00.00508%	M27372
Methionine	Proteid	Root	India	Not stated	N05735
Oleaic Acid	Lipid	Root	Nepal	Not stated	H05892
Oxalic Acid	Alkane to C4	Aerial Parts	Australia	Not stated	W04281
Palmitic Acid	Lipid	Root	Nepal	Not stated	H05892
Proline	Proteid	Root	India	Not stated	N05735

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Proline, hydroxy	Proteid	Root	India	Not stated	N05735
Punarnavine	Alkaloid-misc	Root Entire Plant Entire Plant	India India India	Not stated 00.01% 00.04%	K22122 A11507 W00156
Serine	Proteid	Root	India	Not stated	N05735
Sitosterol Oleate	Steroid	Root	Nepal	Not stated	H05892
Sitosterol Palmitate	Steroid	Root	Nepal	Not stated	H05892
Sitosterol, beta	Steroid	Root Entire Plant Root Root	India India India Nepal	Not stated 00.01% Not stated Not stated	N15507 A14886 A11384 H05892
Stearic Acid	Lipid	Root	Nepal	Not stated	H05892
Stigmasterol	Steroid	Root	Nepal	Not stated	H05892
Sucrose	Carbohydrate	Root Root	Not stated India	00.15% Not stated	M27372 A11384
Syringaresinol-mono-beta-d-glucoside	Lignan	Root	Not stated	00.00166%	M27372
Threonine	Proteid	Root	India	Not stated	N05735
Triacontan-1-ol	Alkane	Root	India	Not stated	N15507
Tyrosine	Proteid	Root	India	Not stated	N05735
Ursolic Acid	Triterpene	Root	India	Not stated	A11384
Valine	Proteid	Root	India	Not stated	N05735
Xylose	Carbohydrate	Root	India	Not stated	N05735

Other Phytochemical Screening:

Alkaloids Absent	Entire Plant	T09394
	Leaf	M15159
	Twig	M15159
	Root	M15159
	Stem	W00233
	Fruit	M15310
Alkaloids Present	Aerial Parts	M15415
	Entire Plant	M05447
	Entire Plant	A11787
	Shoots	M15310
Anthocyanins Absent	Flowers	M15310
	Stem	W00233
Bufadienolides Absent	Stem	W00233
Cardenolides Absent	Stem	W00233
Flavonoids Absent	Stem	W00233
Triterpenes Present	Stem	W00233
Flavonoids Present	Shoots	M15310
	Flowers	M15310
	Fruit	M15310
	Aerial Parts	M15415
	Entire Plant	T09394
Pyrrolizidine Alkaloids Absent	Entire Plant	T09394
Quinones Absent	Stem	W00233
Saponins Absent	Stem	W00233
	Flowers	M15310
	Fruit	M15310
	Shoots	M15310
Saponins Present	Aerial Parts	M15415
	Entire Plant	M05447
Sterols Present	Stem	W00233
	Entire Plant	M05447
Tannins Absent	Aerial Parts	M15415
Tannins Present	Stem	W00233

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