

Presence of Compounds in Chanca Piedra (*Phyllanthus niruri*)

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Ascorbic Acid	Vitamin	Leaf	India	00.40853%	M09820
Astragalin	Flavonone	Leaf Entire Plant Leaf	Not stated India French Guiana		L02704 08172 M22356
Brevifolin, ethyl: Carboxylate	Coumarin	Entire Plant	Paraguay	00.00067%	M21373
Butyrolactone, dibenzyl:	Lignan	Leaf	India	00.0015%	H07424
Butyrolactone, trans-2-(3-4-dimethoxy-benzyl)-3-(3-4-methylenedioxy-benzyl):	Lignan	Leaf	India		H03800
Catechin,(+):	Flavonoid	Root	Japan		K07878
Catechin, epi: (-):	Flavonoid	Root	Japan		K07878
Catechin-3-o-gallate, epi: (-):	Flavonoid	Root	Japan		K07878
Cholesterol, 24-iso-propyl:	Steroid	Aerial Parts	India	00.00180%	M13237
Corilagin	Tannin	Entire Plant	Paraguay	00.0007%	M21373
Cymene	Monoterpene	Essential Oil	Brazil	11.0%	W00664
Deca-trans-2-cis-4-dienamide	Alkaloid-misc	Entire Plant	Ghana	00.00103%	H22295
Dotriacontanoic Acid	Lipid	Aerial Parts	India	00.00650%	M13237
Ellagic Acid	Coumarin	Entire Plant Entire Plant Entire Plant	Paraguay Paraguay Taiwan	00.01081% 00.09729%	M18866 M21373 K08911
Eriodictyol-7-o-alpha-l-rhamnoside	Flavanone	Root	India		L02008
Estradiol	Steroid	Entire Plant Entire Plant	Bangladesh Bangladesh	00.0003%	N00731 T06353
Fisetin-41-o-beta-d-glucoside	Flavonol	Entire Plant	India	00.04000%	T08172

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Fraternusterol	Steroid	Root	India		H26478
Gallic Acid	Benzenoid	Root Entire Plant Entire Plant Entire Plant	Japan Taiwan Paraguay Paraguay	00.00027% 00.0027%	K07878 K08911 M21373 M18866
Gallocatechin, (+):	Flavonoid	Root	Japan		K07878
Gallocatechin, epi: (-):	Flavonoid	Root	Japan		K07878
Gallocatechin-3-o-gallate, epi: (-):	Flavonoid	Root	Japan		K07878
Geraniin	Tannin	Entire Plant	Paraguay	00.23243%	M18866
Heptacosanoic Acid Derivative 4	Lipid	Root	India	00.0142%	H27051
Hinokinin	Lignan	Entire Plant	Taiwan		H09754
Hypophyllanthin	Lignan	Entire Plant Entire Plant Entire Plant Aerial Parts Entire Plant Leaf Leaf Leaf	India India Not stated East Africa Taiwan India India India	00.05% 00.14% 00.167%	A07266 T02532 T02987 W01586 H09754 W01145 H07424 A01168
Kaempferol	Flavonol	Stem	India		K08700
Kaempferol-4'-o-alpha-l-rhamnoside	Flavonol	Root	India		L02008
KCL	Inorganic	Aerial Parts	Thailand	00.9%	M18836
Lariciresinol Trimethyl Ether, iso:seco:	Lignan	Leaf	India	00.00150%	H03800
Lariciresinol, iso: Seco: Trimethyl Ether	Lignan	Leaf	India	00.015%	H07424
Limonene,(-):	Monoterpene	Essential Oil	Brazil	04.5%	W00664
Linnanthin	Lignan	Leaf	India	00.0002%	H07424
Linoleic Acid	Lipid	Seed Oil	India	21.0%	T03665

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Linolenic Acid	Lipid	Seed Oil	India	51.4%	T03665
Lintetralin	Lignan	Leaf Entire Plant Entire Plant Leaf Not Stated Aerial Parts	India Taiwan Not sated India Not stated India	00.0015% 00.0005% 00.0005%	H07424 H09754 T02987 H03800 T00993 M13237
Lintetralin, 4-hydroxy: Seco:	Lignan	Leaf	India	00.02%	H07424
Lintetralin, iso:	Lignan	Entire Plant	Taiwan	00.000335	H09754
Lintetralin, iso: 2-3-demethoxy: Seco:	Lignan	Leaf	India	00.0002%	H07424
Lintetralin, iso: 2-3-demethoxy: Seco:kiacetate	Lignan	Leaf	India	00.00025%	H07424
Lintetralin, seco-4-hydroxy:	Lignan	Leaf	India	00.00200%	H03800
Lupeol	Triterpene	Root Root	India India		A14231 T01051
Lupeol Acetate	Triterpene	Root Root	India India		A14231 T01051
Niranthin	Lignan	Leaf Leaf Entire Plant Aerial Parts	India India Taiwan India	00.0009% 00.043%	H07424 A01168 H09754 M13237
Niranthin, demethylenedioxy:	Lignan	Leaf	India	00.0002%	H07424
Niranthin, hydroxy:	Lignan	Leaf Leaf	India India	00.00040% 00.0004%	H03800 H07424
Nirphyllin	Lignan	Aerial Parts	India	00.0007%	H04831
Nirtetralin	Lignan	Entire Plant Leaf Leaf Aerial Parts Entire Plant	Not stated India India India Taiwan	00.0009% 00.093%	T02987 H07424 A01168 K24152 H09754

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Nirurin	Flavanone	Entire Plant	India	00.04000%	T08681
Nirurine	Indolizidine Alkaloid	Not stated Aerial Parts	Thailand Thailand	00.00398%	N15589 T12165
Nirurinetin	Flavanone	Entire Plant	India		T08681
Nirurisode	Phenylpropanoid	Flower + Leaf + Stem	India	00.016%	H18818
Octa-trans-2-trans-4-dienamide	Alkaloid-misc	Entire Plant	Ghana	00.00655%	H22295
Pentacosanol Ester	Alkanol C5 or more	Root	India	00.007%	H27051
Phyllanterpenyl Ester	Diterpene	Root	India	00.012%	H27051
Phyllanthenol	Triterpene	Aerial Parts	India	00.002%	H16370
Phyllanthenone	Triterpene	Aerial Parts	India	00.0008%	H16370
Phyllantheol	Triterpene	Aerial Parts	India	00.0015%	H16370
Phyllanthin	Lignan	Leaf Entire Plant Aerial Parts Leaf Aerial Parts Aerial Parts Leaf Entire Plant Leaf Aerial Parts Leaf	India India India India East Africa India India Taiwan India India India	00.11% 00.04000% 00.325% 00.2% 00.18%	A14228 L20904 K24152 W00522 W01586 T11593 W01145 H09754 A01168 M13237 H07424
Phyllanthin, hypo:	Lignan	Entire Plant Leaf Aerial Parts Leaf Aerial Parts Aerial Parts	India India India India India India	00.05% 00.01000%	M19653 A14228 K24152 W00522 T11593 M13237

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Phyllanthine	Indolizidine Alkaloid	Aerial Parts Root Leaf Stem	India India India India		T08388 T08388 T08388 T08388
Phyllanthosecosteryl Ester	Steroid	Root	India		H26478
Phyllanthosterol	Steroid	Root	India		H26478
Phyllanthostigmasterol	Steroid	Root	India		H26478
Phyllanthus Flavonoid FG-1	Flavonoid	Entire Plant	India		M22721
Phyllanthus Flavonoid FG-2	Flavonoid	Entire Plant	India		M22721
Phyllanthusone	Tetraterpenoid	Root	India	00.013%	H27051
Phyllester	Benzenoid	Aerial Parts	India	00.00120%	M13237
Phyllnirurin	Lignan	Aerial Parts	India	00.0006%	H04831
Phyllochrysin	Indolizidinealkaloid	Leaf + Stem	Cuba		T02592
Phylltetrin	Lignan	Aerial Parts	India		M13237
Phytetralin	Lignan	Entire Plant Leaf Leaf	Not stated India India	00.14%	T02987 A01168 H07424
Phytol,trans:	Diterpene	Entire Plant	India		M26687
Quercetin	Flavonol	Leaf Aerial Parts Entire Plant Leaf	Not stated East Africa India French Guiana		L02704 W01586 T08172 M22356
Quercetin-3-o-beta-d-glucopyranosyl (1-4)-alpha-l-rhamnopyranoside	Flavonol	Stem	India		K08700
Quercitrin	Flavonol	Leaf Entire Plant Leaf	Not stated India French Guiana		L02704 T08172 M22356

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Quercitrin, iso:	Flavonol	Leaf Leaf	Not stated French Guiana		L02704 M22356
Repandusinic Acid	Tannin	Entire Plant	Not stated	00.11709%	K07799
Repandusinic Acid A	Tannin	Entire Plant	Taiwan		K08911
Ricinoleic Acid	Lipid	Seed Oil Seed Oil	India India	01.2% 01.2%	M19652 T03665
Rutin	Flavonol	Entire Plant Leaf Leaf	India Not stated French Guiana		T08172 L02704 M22356
Salicylic Acid Methyl Ester	Benzenoid	Essential Oil	Brazil	05.0-7.2%	W00664
Securinine, nor:	Pyrrolizidine Alkaloid	Root	India		L02008
Securinine, nor: (-):	Pyrrolizidine Alkaloid	Entire Plant	Not stated		W00640
Securinine, nor: 4-methoxy:	Pyrrolizidine Alkaloid	Aerial Parts Root Leaf Stem	India India India India		T08388 T08388 T08388 T08388
Securinine, nor: Ent	Pyrrolizidine Alkaloid	Entire Plant Entire Plant	India Bangladesh	00.00500%	H02389 K20111
Sesamin,4-hydroxy:	Lignan	Entire Plant	Bangladesh		K20111
Sitosterol, beta:	Steroid	Leaf Aerial Parts	India India	00.07% 00.00850%	A01168 M13237
Tetracosahexa-cis-2-cis-6-cis-10-trans-14-trans-18-trans-22-en-1-ol,3-7-11-15-19-23-hexamethyl:	Triterpene	Aerial Parts	Not stated	00.004%	M19792
Triacontan-1-al	Alkanal C5 or more	Aerial Parts	India	00.00600%	T11593
Triacontan-1-ol	Alkanol C5 or more	Aerial Parts	India	00.05600%	T11593

Other Phytochemical Screening:

Alkaloids Absent	Leaf	W00673	Flavonoids Present	Shoots	M15310
	Leaf + Stem	A04418	Saponins Present	Shoots	M15310
Alkaloids Present	Aerial Parts	W01586		Root	M15310
	Leaf	T07856	Flavonoids Absent	Leaf	W01361
	Stem	T07856		Root	M15310
	Shoots	M15310			
	Root	M15310			

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