

Presence of Compounds in Nescafé (*Mucuna pruriens*)

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Alanine	Amino acid	Seed	Not Stated	5,475-11,600 ppm	ZZ1095
Alkylamine, 5-oxyindole-3		Seed	Not Stated	Not Stated	ZZ1095
Alkylamine, indole-3		Seed	Not Stated	Not Stated	ZZ1095
Amino acid analysis	Proteid	Seed	India	Not Stated	T06203
Arachidic acid		Seed	Not Stated	65-1,385 ppm	ZZ1095
Arginine	Amino acid	Seed	Not Stated	12,350-26,180 ppm	ZZ1095
Ash		Seed Seed	India India	4.3-5.1% 3.3-5.5%	BP1009 BP1010
Aspartic acid		Seed	Not Stated	19,850-42,080 ppm	ZZ1095
Behenic acid		Seed	Not Stated	140-2,265 ppm	ZZ1095
Bufotenine	Indole Alkaloid	Leaf Leaf + Stem Fruit	India Not Stated Not Stated	Not Stated Not Stated Not Stated	A03113 L00048 L00048
Calcium	Inorganic	Seed	Not Stated	1,320-1,600 ppm	ZZ1095
Carbohydrates		Seed Seed	India Not Stated	49.9-61.2% 529,000-667,000 ppm	BP1010 ZZ1095
Carboline, beta		Seed	Not Stated	Not Stated	ZZ1095
Choline	Alkaloid-misc	Leaf	India	Not Stated	A03113
Chymotrypsin Inhibitor		Seed	India	19.3-24.6 mg/g	BP1009
Cystine	Amino acid	Seed	Not Stated	1,400-2,965 ppm	ZZ1095

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Dopa, L	Proteid	Root	China	Not Stated	K15489
		Seed	India	Not Stated	M30478
		Seed	India	Not Stated	M31139
		Seed	India	Not Stated	J16263
		Suspension Culture	Not Stated	00.2-1.7%	M13521
		Seed	India	05.0-7.0%	T02368
		Suspension Culture	Netherlands	Not Stated	K15824
		Shoots	Not Stated	Not Stated	T02510
		Leaf	Not Stated	Not Stated	T02510
		Leaf	Netherlands	Not Stated	K15824
		Stem	Netherlands	Not Stated	K15824
		Root	Netherlands	Not Stated	K15824
		Seed	Indonesia	01.6-1.8%	T07452
		Seed	Indonesia	02.69%	T07452
		Seed	Indonesia	01.7-2.7%	T07452
		Seed	Indonesia	01.7-2.4%	T07452
		Suspension culture	Not Stated	02.0%	K14252
		Seed	China	05.5%	L15749
		Seed	Japan	Not Stated	K10998
		Leaf	Japan	00.5%	M27351
		Root	Japan	01.5%	M27351
		Seed	China	06.2%	L15749
		Seed	India	3.6-4.2%	BP1009
Bean	India	4.02%	BP1012		
Endocarp	India	5.28%	BP1012		
Pericarp (skin)	India	0.09%	BP1012		
Seed	England	10%	BP1015		
Dopamine		Suspension Culture	Netherlands	Not Stated	K15824
		Leaf	Netherlands	Not Stated	K15824
Fat		Seed	Not Stated	7,000-63,000 ppm	ZZ1095
		Seed	India	6.3-7.4%	BP1010
Fatty acids, unsaturated		Seed	India	51.9-55.9%	BP1009
Fiber		Seed	Not Stated	46,000-95,000 ppm	ZZ1095
		Seed	India	8.7-10.5%	BP1010

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Flavone, 4'-5-6-trihydroxy-3'-7-8-trimethoxy 4'-o-beta-d-xylopyranosyl(1-2)-o-alpha-l-rhamnopyranoside)	Flavone	Seed	India	Not Stated	H29734
Galactose, D	Carbohydrate	Seed	India	Not Stated	L17233
Gallic acid		Seed	Not Stated	Not Stated	ZZ1095
Genistein		Leaf Diffusate	Not Stated	8 ppm	ZZ1095
Genistein, hydroxy		Leaf Diffusate	Not Stated	26 ppm	ZZ1095
Glutamic acid		Seed	Not Stated	19,075-40,440 ppm	ZZ1095
Glutathione		Seed	Not Stated	Not Stated	ZZ1095
Glycine	Amino acid	Seed	Not Stated	7,200-15,265 ppm	ZZ1095
Harman, 6-methoxy		Leaf	Not Stated	Not Stated	ZZ1095
Histidine	Amino acid	Seed	Not Stated	3,275-6,945 ppm	ZZ1095
Iron	Inorganic	Seed	Not Stated	200 ppm	ZZ1095
Lecithin	Carbohydrate	Seed	India	Not Stated	T13069
Leucine	Amino acid	Seed	Not Stated	11,875-25,175 ppm	ZZ1095
Leucine, iso		Seed	Not Stated	7,500-15,900 ppm	ZZ1095
Linoleic acid	Lipid	Seed	Not Stated	715-30,680 ppm	ZZ1095
Linolenic acid	Lipid	Seed	Not Stated	265-5,800 ppm	ZZ1095
Lysine	Amino acid	Seed Seed	Not Stated India	9,700-20,564 ppm 6-6.4%	ZZ1095 BP1009
Mannose, D	Carbohydrate	Seed	India	Not Stated	L17233
Methionine	Amino acid	Seed	Not Stated	1,875-3,975 ppm	ZZ1095
Mucunadine		Seed	Not Stated	Not Stated	ZZ1095
Mucunain		Seed	Not Stated	Not Stated	ZZ1095

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Mucunine		Seed	Not Stated	Not Stated	ZZ1095
Mucuna polysaccharide	Carbohydrate	Seed	India	Not Stated	L11392
Mucuna pruriens alkaloid P	Alkaloid-misc	Seed	India	00.0027%	W01967
Mucuna pruriens alkaloid Q	Alkaloid-misc	Seed	India	00.0002%	W01967
Mucuna pruriens alkaloid R	Alkaloid-misc	Seed	India	00.0066%	W01967
Mucuna pruriens alkaloid S	Alkaloid-misc	Seed	India	00.0033%	W01967
Mucuna pruriens alkaloid X	Alkaloid-misc	Seed	India	00.0044%	W01967
Myristic acid		Seed	Not Stated	15-125 ppm	ZZ1095
Niacin	Inorganic	Seed	Not Stated	17-34 ppm	ZZ1095
Nicotine	Alkaloid	Seed	Not Stated	Not Stated	ZZ1095
Octadec-cis-9-enoic acid, threo-12-13-dihydroxy	Lipid	Seed Oil	India	Not Stated	N14511
Octadec-trans-9-enoic acid, cis-12-13-epoxy	Lipid	Seed Oil	India	01.0%	N14511
Octadec-trans-9-enoic acid, threo-12-13-dihydroxy	Lipid	Seed Oil	India	Not Stated	N14511
Oleic acid	Lipid	Seed	Not Stated	735-11,400 ppm	ZZ1095
Palmitic acid	Lipid	Seed	Not Stated	1,365-33,830 ppm	ZZ1095
Palmitoleic acid	Lipid	Seed	Not Stated	35-630 ppm	ZZ1095
Phenylalanine	Amino acid	Seed	Not Stated	7,500-15,900 ppm	ZZ1095
Phosphorus	Inorganic	Seed	Not Stated	3,200-4,700 ppm	ZZ1095
Polysaccharide	Carbohydrate	Seed	India	Not Stated	L17233
Proline	Amino acid	Seed	Not Stated	9,225-19,555 ppm	ZZ1095
Protein	Protein	Seed Seed Seed	India India Not Stated	25.9-27.5% 20.2-29.3% 155,000-331,000 ppm	BP1009 BP1010 ZZ1095

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Prurienidine	Alkaloid-misc	Seed	India	00.011%	W01967
Prurieninine	Alkaloid-misc	Seed	India	00.0011%	W01967
Quinoline, iso: 1-2-3-4-tetrahydro 1-3-carboxy-6-7-dihydroxy	Isoquinoline Alkaloid	Seed	China	Not Stated	L15749
Riboflavin	Inorganic	Seed	Not Stated	1.1-2,7 ppm	ZZ1095
Saponins	Saponin	Seed	Not Stated	21,000 ppm	ZZ1095
Sd		Plant	Not Stated	Not Stated	ZZ1095
Serine	Amino acid	Seed	Not Stated	7,650-16,220 ppm	ZZ1095
Serotonin		Seed	Not Stated	Not Stated	ZZ1095
Sitosterol, beta	Sterol	Seed	Not Stated	Not Stated	ZZ1095
Stearic acid		Seed	Not Stated	390-12,475 ppm	ZZ1095
Stizolamine	Alkaloid	Seed	China	00.039%	L15749
Thiamin	Inorganic	Seed	Not Stated	1.4-5.7 ppm	ZZ1095
Threonine	Amino acid	Seed	Not Stated	6,250-13,250 ppm	ZZ1095
Trypsin		Seed	India	28.5-39.7 mg/g	BP1009
Tryptamine		Seed	Not Stated	Not Stated	ZZ1095
Tryptamine, 5-hydroxy	Indole Alkaloid	Pod Trichomes Leaf + Stem Fruit	India Not Stated Not Stated	Not Stated Not Stated Not Stated	A03113 L00048 L00048
Tryptamine, n-n-dimethyl	Indole Alkaloid	Leaf Leaf + Stem Fruit	India Not Stated Not Stated	00.006% Not Stated Not Stated	A03113 L00048 L00048
Tryptamine, n-n-dimethyl: 5-methoxy	Indole Alkaloid	Leaf	India	00.0025%	A03113

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Tryptamine, n-n-dimethyl: methoxy	Indole Alkaloid	Leaf + Stem Fruit	Not Stated Not Stated	Not Stated Not Stated	L00048 L00048
Tryptamine, n-n-dimethyl: n-oxide	Indole Alkaloid	Leaf Leaf + Stem Fruit	India Not Stated Not Stated	00.003% Not Stated Not Stated	A03113 L00048 L00048
Tyrosine	Amino acid	Seed	Not Stated	7,975-16,907 ppm	ZZ1095
Valine		Seed	Not Stated	8,600-18,232 ppm	ZZ1095
Vernolic acid	Lipid	Seed Oil Seed Oil	India India	Not Stated 04.0%	K10006 N14511

PHYTOCHEMICAL SCREENING

ALKALOIDS ABSENT	LEAF	M21329
ALKALOIDS PRESENT	SEED	T05143
	SEED	W00233
ANTHOCYANINS ABSENT	SEED	W00233
CARDENOLIDES/BUFADIENOLIDES ABSENT	SEED	W00233
FLAVONOIDS ABSENT	SEED	W00233
PYRROLIZIDINE ALKALOIDS ABSENT	SEED	T05143
QUINONES ABSENT	SEED	W00233
SAPONINS (UNSPECIFIED TYPE OR HEMOLYTIC) PRESENT	SEED	W00233
STEROLS AND/OR TRITERPENES PRESENT	SEED	W00233
TANNINS (FERRIC CHLORIDE TEST) PRESENT	SEED	W00233
PROTEASE INHIBITORS PRESENT	SEED	BP1007
LECTINS PRESENT	SEED	BP1007

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