

## Presence of Compounds in Clavillia (*Mirabilis jalapa*)

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Abronisoflavone, 2'-o-methyl:	Isoflavone	Suspension Culture	China	00.37037%	H27962
Alanine	Proteid	Leaf Leaf	India India	Not stated Not stated	K07026 K01698
Amyrin, alpha:	Triterpene	Root	Pakistan	00.37%	K27977
Amyrin, alpha: acetate	Triterpene	Root	Pakistan	Not stated	K27977
Amyrin, beta:	Triterpene	Seed	India	Not stated	K21763
Amyrin, beta: 3-o-alpha-l-rhamnosyl-o-beta-d-glucoside	Triterpene	Seed	India	Not stated	K21763
Arabinose		Root	Not Stated	Not stated	ZZ1095
Arabinitol, 2-carboxy:	Carbohydrate	Leaf	USA	38 nmol/gm	K22890
Betalamic acid	Betaxanthin	Petals	Germany	Not stated	M29558
Betanin	Betaxanthin	Flowers	Italy	Not stated	W04363
Betanin, iso:	Betaxanthin	Flowers	Italy	Not stated	W04363
Boeravinone b, 4-hydroxy-9-o-methyl:	Flavonoid	Suspension Culture	China	00.55555%	H27962
Boeravinone c, 6-methoxy:	Flavonoid	Suspension Culture	China	00.29629%	H27962
Brassicasterol	Steroid	Aerial Parts Aerial Parts	Pakistan Pakistan	00.00004% Not stated	J19309 M26197
Campesterol	Steroid	Leaf	India	Not stated	K01698
Citric acid	Alkane to c4	Leaf	India	Not stated	K01698
Daucosterol	Steroid	Seed	India	Not stated	K21763
Dopamine	Isoquinoline alkaloid	Petals	Italy	Not stated	W03034
Dotriacontane, n:	Alkane c5 or more	Leaf	India	Not stated	K01698

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Fat	Lipid	Seed	Not Stated	39,000-46,000 ppm	ZZ1095
Galactose		Root	Not Stated	Not stated	ZZ1095
Glucan, d:	Carbohydrate	Cotyledons	India	Not stated	M06791
Glycine	Proteid	Leaf Leaf	India India	Not stated Not stated	K07026 K01698
Hentriacontane, n:	Alkane c5 or more	Leaf	India	Not stated	K01698
Heptacosane, n:	Alkane c5 or more	Leaf	India	Not stated	K01698
Hexacosan-1-ol	Alkanol c5 or more	Leaf	India	Not stated	K01698
Hexacosane, n:	Alkane c5 or more	Leaf	India	Not stated	K01698
Indicaxanthin	Betaxanthin	Petals Flowers	Italy India	Not stated Not stated	W03034 L13184
Leucine	Proteid	Leaf Leaf	India India	Not stated Not stated	K07026 K01698
Lignoceric acid	Lipid	Leaf	India	Not stated	K01698
Mirabilis antiviral protein (MAP)	Proteid	Root Tuber	Japan Hong Kong	Not stated Not stated	K10759 K09120
Mirabilis antiviral protein-4 (MAP-4)	Proteid	Root	Italy	Not stated	AD1007
Mirabilis antiviral protein-S (MAP-S)	Proteid	Seed	Italy	Not stated	AD1008
Mirabilisoic acid	Lipid	Flowers	India	Not stated	H29800
Mirabalisol	Diterpene	Flowers	India	Not stated	H29800
Mirabilis anti-plant-viral protein	Proteid	Suspension Culture Suspension Culture	Japan Japan	00.0095% 00.63000%	M18231 M16698
Mirabilis peptide jm-amp-s	Proteid	Seed	Belgium	Not stated	H15541
Mirabilis peptide mj-amp-1	Proteid	Seed	Not stated	Not stated	H08273

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Mirabilis peptide mj-amp-2	Proteid	Seed Seed	Not stated Belgium	Not stated Not stated	H08273 H20571
Miraxanthin I	Betaxanthin	Flowers Petals	India Italy	Not stated Not stated	L13184 W03034
Miraxanthin II	Betaxanthin	Flowers Petals	India Italy	Not stated Not stated	L13184 W03034
Miraxanthin III	Betaxanthin	Flowers Petals	India Italy	Not stated 00.00028%	L13184 W03034
Miraxanthin IV	Betaxanthin	Flowers Petals	India Italy	Not stated 00.00037%	L13184 W03034
Miraxanthin V	Betaxanthin	Petals	Italy	00.00328%	W03034
Miraxanthin VI	Betaxanthin	Petals	Italy	00.00078%	W03034
Nonacosane, n:	Alkane c5 or more	Leaf	India	Not stated	K01698
Octacosane, n:	Alkane c5 or more	Leaf	India	Not stated	K01698
Octadeca-cis-11-14-dienoic acid, 8-hydroxy:	Lipid	Seed Oil	India	Not stated	M05871
Oleanolic acid	Triterpene	Aerial Parts Aerial Parts	Pakistan Pakistan	00.00003% Not stated	J19309 M26197
Pentacosane, n:	Alkane c5 or more	Leaf	India	Not stated	K01698
Pentatriacontane, n:	Alkane c5 or more	Leaf	India	Not stated	K01698
Phytol, trans:	Diterpene	Aerial Parts	Pakistan	00.00013%	J19309
Polysaccharide ( <i>Mirabilis jalapa</i> )	Carbohydrate	Root	India	Not stated	M17573
Protein	Inorganic	Seed	Not Stated	171,000-181,000 ppm	ZZ1095
Protein map ( <i>Mirabilis jalapa</i> )	Proteid	Suspension Culture	Japan(cult)	Not stated	T14606
Quercetin	Flavonol	Aerial Parts	South Korea	Not stated	T03014
Resin		Root	Not Stated	30,000 ppm	ZZ1095

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Sitosterol, beta:	Steroid	Seed Aerial Parts Leaf Aerial Parts Leaf	India Pakistan India Pakistan India	Not stated Not stated Not stated 00.00007% Not stated	K21763 M26197 K01698 J19309 K01698
Sitosterol, beta: beta-d-glucoside		Plant	Not Stated	Not stated	ZZ1095
Sitosterol, beta: acetate	Steroid	Aerial Parts	Pakistan	00.00004%	J19309
Starch	Carbohydrate	Seed	Taiwan	56.4%	N16034
Sterol analysis	Steroid	Entire Plant	Not stated	Not stated	J18332
Stigmasterol	Steroid	Aerial Parts Aerial Parts Leaf	Pakistan Pakistan India	Not stated 00.00003% Not stated	M26197 J19309 K01698
Tartaric acid	Alkane to c4	Leaf	India	Not stated	K01698
Tetracosane, n:	Alkane c5 or more	Leaf	India	Not stated	K01698
Tetratriacontane, n:	Alkane c5 or more	Leaf	India	Not stated	K01698
Triacotane, n:	Alkane c5 or more	Leaf	India	Not stated	K01698
Tricosan-12-one	Alkanone c5 or more	Leaf	India	Not stated	K01698
Tricosane, n:	Alkane c5 or more	Leaf	India	Not stated	K01698
Trigonelline	Proteid	Root	Jamaica	Not stated	W01270
Tritriacontane, n:	Alkane c5 or more	Leaf	India	Not stated	K01698
Tryptophan	Proteid	Leaf Leaf	India India	Not stated Not stated	K07026 K01698
Tyramine	Isoquinoline alkaloid	Petals	Italy	Not stated	W03034
Urs-12-en-28-oic acid, 3-oxo: methyl ester	Triterpene	Aerial Parts	Pakistan	00.00006%	J19309
Ursolic acid	Triterpene	Aerial Parts Aerial Parts	Pakistan Pakistan	Not stated 00.00005%	M26197 J19309

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Valine	Proteid	Leaf	India	Not stated	K07026
		Leaf	India	Not stated	K01698
Vulgaxanthin I	Betaxanthin	Petals	Italy	Not stated	W03034
		Flowers	India	Not stated	L13184

**OTHER PHYTOCHEMICAL SCREENING:**

ALKALOIDS ABSENT	AERIAL PARTS	T03014
ALKALOIDS PRESENT	SEED	J08873
FLAVONOIDS PRESENT	AERIAL PARTS	T03014
IRIDOIDS PRESENT	AERIAL PARTS	T07364
STEROIDAL SAPONINS PRESENT	AERIAL PARTS	T03014

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