

## Presence of Compounds in Coirama (*Kalanchoe pinnata*)

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Acetic Acid	Alkane to C4	Leaf	USA	Not Stated	A12194
Alkanes(c-25 to C-33)	Alkane C5 or More	Wax	Kenya(cult)	Not Stated	J10346
Alkanes(c-25, C-27 to C-35)	Alkane C5 or More	Leaf Wax	Kenya(cult)	Not Stated	J10346
Alkanes(c-27 to C-35)	Alkane C5 or More	Leaf Wax	Kenya(cult)	Not Stated	J10346
Alkanols(c26 to C34)	Alkanol C5 or More	Leaf	India	Not Stated	A11967
Amyrin, alpha	Triterpene	Leaf Leaf	India Pakistan	Not Stated Not Stated	A11967 M21491
Amyrin, alpha acetate	Triterpene	Leaf	Pakistan	Not Stated	M21491
Amyrin, beta	Triterpene	Leaf Leaf	India Pakistan	Not Stated Not Stated	A11967 M21491
Amyrin, beta acetate	Triterpene	Leaf	Pakistan	Not Stated	M21491
Arachidic acid	Lipid	Leaf	Brazil	Not Stated	L08268
Astragalin	Flavonol	Leaf	India	Not Stated	A11969
Behenic acid	Lipid	Leaf	Brazil	Not Stated	L08268
Benzoic Acid, 4-hydroxy	Benzenoid	Root Leaf	Indonesia India	Not Stated Not Stated	J15757 A15411
Benzoic acid, p-hydroxy	Benzenoid	Plant	Not Stated	Not Stated	ZZ1047
Bersaldegenin-3-acetate	Cardenolide	Entire Plant Leaf Entire Plant	Taiwan Japan Taiwan	00.000026% Not Stated Not Stated	H04105 L18804 H05528
Bersaldigenin-1-3-5-orthoacetate	Cardenolide	Entire Plant	China	Not Stated	K11514
Brassicasterol, 22-deihydro	Steroid	Aerial Parts	Japan	00.00066%	H07256
Bryophollenone	Alkenone C5 or More	Leaf	Pakistan	Not Stated	M21491

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Bryophollone	Triterpene	Leaf	Pakistan	Not Stated	M21491
Bryophyllin	Cardenolide	Leaf	Not Stated	Not Stated	ZZ1047
Bryophyllin A (bryotoxin C)	Cardenolide	Leaf Leaf	Japan Japan	Not Stated Not Stated	L18804 H27510
Bryophyllin B	Cardenolide	Entire Plant	Taiwan	00.00004%	H05528
Bryophyllin C	Cardenolide	Leaf Leaf	Japan Indonesia	Not Stated 00.00003%	L18804 H27510
Bryophyllol	Steroid	Leaf	Pakistan	Not Stated	M21491
Bryophynol	Triterpene	Leaf	Pakistan	Not Stated	M21491
Bryotoxin C	Cardenolide	Leaf Entire Plant Leaf Entire Plant	Japan Taiwan Indonesia Taiwan	Not Stated 00.0001% 00.00017% Not Stated	L18804 H04105 H27510 H05528
Caffeic Acid	Phenylpropanoid	Leaf Root	India Indonesia	Not Stated Not Stated	A15411 J15757
Campesterol	Steroid	Aerial Parts	Japan	00.00066%	H07256
Cholesterol, 24-ethyl-25-hydroxy	Steroid	Leaf	Pakistan	Not Stated	M21491
Cinnamic acid, 4-hydroxy-3-methoxy	Phenylpropanoid	Leaf	Not Stated	Not Stated	ZZ1047
Cinnamic acid, p-hydroxy	Phenylpropanoid	Leaf	Not Stated	Not Stated	ZZ1047
Citric Acid	Alkane to C4	Leaf	USA	Not Stated	A12194
Citric Acid, iso	Alkane to C4	Leaf Leaf	Not Stated USA	Not Stated Not Stated	J08825 A12194
Clerosterol	Steroid	Aerial Parts	Japan	00.00051%	H07256
Clerosterol, 24-epi	Steroid	Aerial Parts	Japan	00.0003%	H07256
Clionasterol	Steroid	Aerial Parts	Japan	Not Stated	H07256
Codisterol	Steroid	Aerial Parts	Japan	00.0001%	H07256

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Coumaric Acid, para	Phenylpropanoid	Leaf Root	India Indonesia	Not Stated Not Stated	A15411 J15757
Desmosterol, 24-ethyl	Steroid	Aerial Parts	Japan	00.00775%	H07256
Ergost-24(28)-en-3-beta-ol, 25-methyl	Steroid	Aerial Parts	Japan	00.0002%	H07256
Ergosta-5-24(28)-dien-3-beta-ol	Steroid	Aerial Parts	Japan	00.0001%	H07256
Ergosta-5-24(28)-dien-3-beta-ol, 25-methyl	Steroid	Aerial Parts	Japan	00.0003%	H07256
Ferulic Acid	Phenylpropanoid	Leaf	India	Not Stated	A15411
Flavone, 3,8-dimethoxy-4,5,7-trihydroxy	Flavone	Leaf	Not Stated	Not Stated	ZZ1047
Friedelin		Plant	Not Stated	Not Stated	ZZ1047
Fructose-6-phosphate		Not Stated	Japan	Not Stated	BQ1004
Fucosterol, iso	Steroid	Aerial Parts Aerial Parts	Japan Japan	00.0002% 00.00122%	H07256 H07256
Fumaric Acid	Alkane to C4	Leaf	India	00.00070%	A11968
Gallic Acid	Benzenoid	Aerial Parts Root	Nigeria Indonesia	00.01575% Not Stated	H22659 J15757
Gallocatechin-3-o-syringate, epi	Flavonoid	Aerial Parts	Nigeria	00.00516%	H22659
Glucose-6-phosphate		Not Stated	Japan	Not Stated	BQ1004
Glucose 1-phosphate		Not Stated	Japan	Not Stated	BQ1004
Glutinol		Plant	Not Stated	Not Stated	ZZ1047
Hentriacontane, n	Alkane C5 or More	Leaf	India	Not Stated	A11967
Kaempferol	Flavonol	Leaf	India	Not Stated	A15411
Kaempferol-3-monoglucoside		Plant	Not Stated	Not Stated	ZZ1047
Lactic acid		Plant	Not Stated	Not Stated	ZZ1047
Leucinopine	Proteid	Crown Gall Tumor	Not Stated	Not Stated	T07887

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Leucinopine lactam	Proteid	Crown Gall Tumor	Not Stated	Not Stated	T07887
Luteolin	Flavone	Aerial Parts	Nigeria	00.00266%	H22659
Malic Acid	Alkane to C4	Leaf	USA	Not Stated	A12194
Mucilage		Plant	Not Stated	Not Stated	ZZ1047
Oleanane, 18-alpha	Triterpene	Leaf	Pakistan	Not Stated	M21491
Oxalic Acid	Alkane to C4	Leaf	USA	Not Stated	A12194
Oxaloacetate		Not Stated	Japan	Not Stated	BQ1004
Palmitic acid	Lipid	Leaf	Brazil	89.3%	L08268
Patuletin		Plant	Not Stated	Not Stated	ZZ1047
Patuletin 3-O-(4-O-acetyl-alpha-L-rhamnopyranosyl)-7-O-(2-O-acetyl-alpha-L-rhamnopyranoside)		Leaf Stem	France France	Not Stated Not Stated	BQ1008 BQ1008
Patuletin 3-O-alpha-L-rhamnopyranosyl-7-O-(2-O-acetyl-alpha-L-rhamnopyranoside)		Leaf Stem	France France	Not Stated Not Stated	BQ1008 BQ1008
Patuletin 3-O-(4-O-acetyl-alpha-L-rhamnopyranosyl)-7-O-rhamnopyranoside		Leaf Stem			
Peposterol	Steroid	Aerial Parts	Japan	00.0001%	H07256
Phenanthrene, 2-(9-decenyl)	Polycyclic	Leaf	Pakistan	Not Stated	M21491
Phenanthrene, 2-(9-undecenyl)	Polycyclic	Leaf	Pakistan	Not Stated	M21491
Phosphoenolpyruvate		Not Stated	Japan	Not Stated	BQ1004
Protocatechuic Acid	Benzenoid	Root	Indonesia	Not Stated	J15757
Pyruvate		Not Stated	Japan	Not Stated	BQ1004
Quercetin	Flavonol	Leaf Leaf	Bimini India	Not Stated Not Stated	T00359 A15411

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Quercetin-3-o-alpha-l-arabinopyranosyl (1-2)-alpha-l-rhamnopyranoside	Flavonol	Entire Plant Entire Plant	Japan Japan	Not Stated 00.128%	K20721 K20440
Quercetin-3-o-diarabinoside	Flavonol	Leaf	India	Not Stated	A11969
Rutin	Flavonol	Leaf	Bimini	Not Stated	T00359
Sitosterol, beta	Steroid	Leaf Aerial Parts Leaf	Senegal Japan India	Not Stated 00.00755% Not Stated	M17092 H07256 A11967
Stearic acid	Lipid	Leaf	Brazil	10.7%	L08268
Stigmast-24-en-3-beta-ol, 5-alpha	Steroid	Aerial Parts	Japan	00.0002%	H07256
Stigmast-25-en-3-beta-ol, (24s)	Steroid	Aerial Parts	Japan	00.0001%	H07256
Stigmasta-7-25-dien-3-beta-ol, 5-alpha (24r)	Steroid	Aerial Parts	Japan	00.0001%	H07256
Stigmasta-7-25-dien-3-beta-ol, 5-alpha (24s)	Steroid	Aerial Parts	Japan	00.0001%	H07256
Stigmasterol	Steroid	Aerial Parts	Japan	00.001%	H07256
Succinic acid	Alkane to C4	Leaf	USA	Not Stated	A12194
Syringic acid	Benzenoid	Leaf	India	Not Stated	A15411
Taraxerol		Plant	Not Stated	Not Stated	ZZ1047
Taraxasterol, pseudo	Triterpene	Leaf	Pakistan	Not Stated	M21491
Triacontane, n	Alkane C5 or More	Leaf	India	Not Stated	A11967

## OTHER PHYTOCHEMICAL SCREENING

ALKALOIDS	PRESENT	LEAF	L07710
		LEAF + STEM	W00479
		LEAF	L16047
TANNINS(HIDE TEST)	ABSENT	ENTIRE PLANT	T07438

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