

Presence of Compounds in Bitter Melon (*Momordica charantia*)

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Alanine	Proteid	Seed Fruit	Nepal India	00.01577% Not stated	T06653 A00487
Alanine,beta:	Proteid	Fruit	India	Not stated	A00487
Alanine,phenyl:	Proteid	Fruit	India	Not stated	A00487
Amyrin,beta:	Triterpene	Seed oil	Japan	Not stated	M15045
Arachidic acid	Lipid	Entire plant	Bangladesh	Not stated	L13425
Arginine	Proteid	Seed	Nepal	00.0323%	T06653
Ascorbic acid	Inorganic	Fruit Leaf	Not stated Not stated	570-36,444 ppm 1,700-12,412 ppm	ZZ1047 ZZ1047
Ascorbigen	Unknown	Fruit	Not stated	Not stated	ZZ1047
Asparagine	Proteid	Seed	Nepal	Traces	T06653
Aspartic acid	Proteid	Seed	Nepal	00.009%	T06653
BGIT	Proteid	Seed	Japan	Not Stated	AM1028
Bitter gourd inhibitor bg-i-a	Proteid	Seed	Japan	Not stated	H08562
Butyric acid,gamma-amino	Proteid	Seed Fruit	Nepal India	Traces Not stated	T06653 A00487
Calceolarioside E	Phenylpropanoid	Aerial parts	Peru	Not stated	M28611
Calcium	Inorganic	Fruit Leaf	Not stated Not stated	130-4,333 ppm 2,640-18,701 ppm	ZZ1047 ZZ1047
Capric acid	Lipid	Seed oil Entire plant	India Bangladesh	Not stated Not stated	M19217 L13425
Carotene,alpha: epoxide	Carotenoid	Pericarp	USA	Not stated	K03650
Carotene,beta:	Carotenoid	Pericarp	USA	Not stated	K03650

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Carotene,beta: 5-6-epoxy:	Carotenoid	Pericarp	USA	Not stated	K03650
Carotene,delta:	Carotenoid	Pericarp	USA	Not stated	K03650
Carotene,gamma:	Carotenoid	Pericarp	USA	Not stated	K03650
Charantin	Steroid	Fruit Fruit Seed Fruit(unripe) Fruit Fruit	India China China India India China	Not stated Not stated Not stated 00.035% 00.15% Not stated	J11478 T08662 T08662 W00678 A00485 L14446
Charine	Alkaloid	Fruit(unripe)	Egypt	Not stated	H16247
Cholesta-trans-7-trans-22-25(27)-trien-3-beta-ol,5-alpha: 3-o-beta-d-glucosyl-24-beta-ethyl	Steroid	Seed	China	Not stated	M27078
Cholesterol	Lipid	Fruit	Not stated	Not stated	ZZ1047
Citrulline	Proteid	Fruit	Japan	41.2 ppm	A00503
Copper	Inorganic	Fruit	Not stated	30 ppm	ZZ1047
Cryptoxanthin	Carotenoid	Pericarp	USA	Not stated	K03650
Cucurbita-5-24-dien-19-al,2-3-dihydroxy:	Triterpene	Entire plant	Bangladesh	Not stated	L16527
Cucurbita-5-24-dien-3-beta-ol,1o-alpha:	Triterpene	Seed oil	Japan	Not stated	M15045
Cucurbita-5-24-diene,3-beta-7-beta- 23-trihydroxy: 7 -o-beta-d-glucoside	Triterpene	Leaf	Nigeria	00.03238%	M26112
Cucurbitacin B	Triterpene	Seed	Not stated	Not stated	L00734
Cucurbitacin K	Triterpene	Seed	Not stated	Not stated	L00734
Cycloart-cis-23-ene-3-beta-25-diol	Triterpene	Seed	Japan	Not stated	H24527
Cycloartenol	Triterpene	Seed oil	Japan	Not stated	M15045
Cycloartenol,24-methylene:	Triterpene	Seed oil	Japan	Not stated	M15045
Cymene,para:	Monoterpene	Seed essential oil	Japan	Not stated	M13369

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Diosgenin	Sapogenin	Fruit(unripe) Suspension	India Not stated	01.69 mg/gm 13.66 mg/gm	A00475 A00475
Elaeostearic acid,alpha:	Lipid	Kernel Cotyledons Fruit	Japan Not stated P.-New Guinea	Not stated 65.89% Not stated	A00488 T06928 M27944
Elaesterol	Sterol	Plant	Not stated	Not stated	ZZ1047
Erythrodiol	Triterpene	Seed	Japan	Not stated	H24527
Ethylene	Alkene to c3	Fruit	USA	Not stated	T00436
Flavochrome	Unknown	Fruit	Not stated	Not stated	ZZ1047
Galacturonic acid,D:	Carbohydrate	Fruit	India	00.06%	A00486
Gentisic acid	Benzenoid	Leaf	Trinidad	Not stated	A06190
Glucose,alpha:	Carbohydrate	Seed	Japan	Not stated	M16315
Glucose,beta:	Carbohydrate	Seed	Japan	Not stated	M16315
Glutamic acid	Proteid	Fruit Seed	India Nepal	Not stated 00.0212%	A00487 T06653
Glycine	Proteid	Seed	Nepal	00.00382%	T06653
Gourd protein mrk-29	Proteid	Endosperm	Thailand	Not stated	H28024
Goyaglycoside A	Triterpene	Fruit	Japan	00.00007%	H27988
Goyaglycoside B	Triterpene	Fruit	Japan	00.00005%	H27988
Goyaglycoside C	Triterpene	Fruit	Japan	00.00006%	H27988
Goyaglycoside D	Triterpene	Fruit	Japan	00.00008%	H27988
Goyaglycoside E	Triterpene	Fruit	Japan	00.0001%	H27988
Goyaglycoside F	Triterpene	Fruit	Japan	00.00008%	H27988
Goyaglycoside G	Triterpene	Fruit	Japan	00.00006%	H27988

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Goyaglycoside H	Triterpene	Fruit	Japan	00.00007%	H27988
Goyasaponin I	Triterpene	Fruit	Japan	00.0001%	H27988
Goyasaponin ii	Triterpene	Fruit	Japan	00.00027%	H27988
Goyasaponin iii	Triterpene	Fruit	Japan	00.00008%	H27988
Guanylate cyclase inhibitor	Unknown	Not stated	Not stated	Not stated	AM1041
Gypsogenin	Triterpene	Not stated	Egypt	Not stated	J12384
Hexadecan-1-ol	Alkanol c5 or more	Seed essential oil	Japan	Not stated	M13369
Histidine	Proteid	Seed	Nepal	00.00436%	T06653
Inulin	Carbohydrate	Callus tissue Fruit Fruit Callus tissue	Not stated Not stated India Not stated	Not stated Not stated 01.0 gm/100 gm 01.9 gm/100.0 g	K01330 K03348 K00778 K00778
Iodine	Inorganic	Fruit	Not stated	0.41 ppm	ZZ1047
Iron	Inorganic	Fruit Leaf	Not stated Not stated	2-560 ppm 50-357 ppm	ZZ1047
Kakara i-b	Structure unknown	Fruit(unripe)	India	Not stated	H24172
Kakara iii-a	Structure unknown	Fruit(unripe)	India	Not stated	H24172
Kakara iii-b	Structure unknown	Fruit(unripe)	India	Not stated	H24172
Karoundiol	Triterpene	Seed	Japan	Not stated	H24527
Karoundiol,dihydro: 7-oxo:	Triterpene	Seed	Japan	Not stated	H24527
Karoundiol,iso:	Triterpene	Seed	Japan	Not stated	H24527
Karoundiol,iso: 3-para-methoxy-benzoate	Triterpene	Seed	Japan	Not stated	H24527
Karoundiol-3-benzoate	Triterpene	Seed	Japan	Not stated	H24527
Lanosterol	Sterol	Fruit	Not stated	Not stated	ZZ1047

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Lauric acid	Lipid	Fruit Seed oil Entire plant	P.-New Guinea India Bangladesh	Not stated Not stated Not stated	M27944 M19217 L13425
Lectin inhibitor	Proteid	Seed	India	Not stated	N04644
Lectin	Proteid	Seed Seed	India China	Not stated Not stated	N04644 T08662
Leucine	Proteid	Seed	Nepal	00.00416%	T06653
Leucine,iso:	Proteid	Seed	Nepal	00.00384%	T06653
Linoleic acid	Lipid	Entire plant Seed oil Fruit Cotyledons Cotyledons	Bangladesh India P.-New Guinea Not stated Not stated	Not stated Not stated Not stated 07.22% 10.39%	L13425 M19217 M27944 T06928 T06928
Linolenic acid	Lipid	Seed oil Fruit Cotyledons	India P.-New Guinea Not stated	Not stated Not stated 09.96%	M19217 M27944 T06928
Lutein	Carotenoid	Pericarp	USA-RI	Not stated	K03650
Lycopene	Carotenoid	Seed Fruit Pericarp	Taiwan Taiwan USA	Not stated 00.02310% Not stated	M12169 T06649 K03650
Lysine	Proteid	Seed	Nepal	00.0149%	T06653
Magnesium	Inorganic	Fruit	Not stated	195-3,800 ppm	ZZ1047
Manganese	Inorganic	Fruit	Not stated	10 ppm	ZZ1047
Map-30	Proteid	Seed	China	Not stated	M27144
Menthol,(-):	Monoterpene	Seed essential oil	Japan	Not stated	M13369
Momorcharaside A	Triterpene	Seed	China	Not stated	M27078
Momorcharaside B	Triterpene	Seed	China	Not stated	M27078

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Momorcharin I	Proteid	Seed	China	Not stated	K10925
Momorcharin ii	Proteid	Seed	China	Not stated	K10925
Momorcharin, alpha:	Proteid	Seed Seed Seed Seed Seed Seed Seed Seed	Hong Kong Not stated Hong Kong Not stated China Hong Kong China Not stated	Not stated Not stated Not stated Not stated 00.10000% Not stated Not stated Not stated	K29357 T08079 T12146 T15210 T10072 T08376 T08662 T14056
Momorcharin, beta:	Proteid	Seed Seed Seed Seed Seed Seed Seed Seed Seed	Not stated Hong Kong Not stated Hong Kong Hong Kong Not stated China China Not stated	Not stated Not stated Not stated Not stated Not stated Not stated 00.08000% Not stated Not stated	T08064 T08376 T08079 K29357 T12146 T15210 T10072 T08662 T14056
Momorcharin, delta:	Proteid	Seed	China	Not stated	H24792
Momorcharin, epsilon:	Proteid	Fruit	China	Not stated	H24792
Momorcharin, gamma:	Proteid	Seed	China	Not stated	K27541
Momordenol	Steroid	Fruit	Pakistan	00.00003%	H19648
Momordica agglutinin	Proteid	Seed	Taiwan	Not stated	M01395
Momordica anti-hiv protein map-30	Proteid	Seed	China	Not stated	K16937
Momordica charantia inhibitor protein	Proteid	Seed	Not stated	Not stated	T03229
Momordica charantia cytostatic factor	Proteid	Fruit	USA	Not stated	T12489
Momordica charantia cytostatic factor 11000 daltons	Proteid	Fruit	USA	Not stated	T06213
Momordica charantia cytostatic factor 40000 daltons	Proteid	Fruit	USA	Not stated	T06213

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Momordica charantia lectin	Proteid	Seed Seed Seed Seed Seed	China Not stated India Not stated China	Not stated Not stated 00.016% Not stated Not stated	M22040 T03229 T03515 T01621 AM1020
Momordica charantia steroid glycoside	Steroid	Fruit	Thailand	Not stated	C00037
Momordica charantia triterpene glycoside	Triterpene	Cotyledons	India	Not stated	T08932
Momordica cucurbitane 3	Triterpene	Leaf	Nigeria	00.02047%	M26112
Momordica cucurbitane 6	Triterpene	Leaf	Nigeria	00.02%	M26112
Momordica elastase inhibitor mcei-l	Proteid	Seed	Japan	Not stated	H04816
Momordica lectin	Proteid	Seed	China	Not stated	H17847
Momordica protein (mw-34,000)	Proteid	Fruit	China	Not stated	J11634
Momordica protein map-30	Proteid	Fruit Seed	Not stated Not stated	Not stated Not stated	K08504 K08504
Momordica protein ms-1	Proteid	Seed	Australia	Not stated	K28076
Momordica protein ms-2	Proteid	Seed	Australia	Not stated	K28076
Momordica protein ms-3	Proteid	Seed	Australia	Not stated	K28076
Momordica protein ms-4	Proteid	Seed	Australia	Not stated	K28076
Momordica trypsin inhibitor mcti-l	Proteid	Seed	Japan	Not stated	H04816
Momordica trypsin inhibitor mcti-ii	Proteid	Seed	Japan	Not stated	H04816
Momordicilin	Triterpene	Fruit	Pakistan	00.000015%	H19648
Momordicin	Triterpene	Fruit	Pakistan	00.000018%	H19648
Momordicin 8	Triterpene	Leaf	Nigeria	00.04404%	M26112
Momordicin I	Triterpene	Leaf	India	00.12%	L07241

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Momordicin ii	Triterpene	Leaf Leaf	Nigeria India	00.1919% 00.15%	M26112 L07241
Momordicine	Alkaloid-misc	Leaf Part Not Specified	Brazil Not stated	00.008% Not stated	A00499 A05062
Momordicine 1	Triterpene	Fruit(unripe)	Not stated	00.05%	J17890
Momordicine I	Triterpene	Leaf + stem	Japan	00.07%	T08353
Momordicine ii	Triterpene	Leaf Leaf + stem	India Japan	Not stated 00.07%	M27271 T08353
Momordicine iii	Triterpene	Leaf + stem	Japan	00.12%	T08353
Momordicinin	Triterpene	Fruit	Pakistan	00.00002%	H19648
Momordicoside A	Triterpene	Part Not Specified Seed Fruit	China Japan Japan	Not stated 00.12874% 00.00128%	L18292 T09095 H27988
Momordicoside B	Triterpene	Seed	Japan	00.00898%	T09095
Momordicoside C	Triterpene	Seed Fruit	Japan Japan	00.01141% 00.00016%	T09094 H27988
Momordicoside D	Triterpene	Seed	Japan	00.00228%	T09094
Momordicoside E	Triterpene	Seed	Japan	00.00365%	T09094
Momordicoside E'	Triterpene	Fruit(unripe)	Japan	00.00104%	T05957
Momordicoside E-1	Triterpene	Fruit(unripe)	Japan	00.07560%	T05957
Momordicoside Ex	Triterpene	Fruit(unripe)	Japan	00.00126%	T05957
Momordicoside F	Triterpene	Fruit(unripe)	Japan	00.00720%	T05957
Momordicoside F	Triterpene	Fruit(unripe)	Japan	00.00060%	T05957
Momordicoside F-1	Triterpene	Fruit(unripe) Fruit	Japan Japan	00.04340% 00.00012%	T05957 H27988

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Momordicoside F-2	Triterpene	Fruit(unripe) Fruit(unripe)	Japan Japan	Not stated 00.00400%	T04513 T05957
Momordicoside G	Triterpene	Fruit(unripe) Fruit(unripe)	Japan Japan	Not stated 00.01236%	T04513 T05957
Momordicoside H	Triterpene	Fruit(unripe)	Japan	00.00740%	T05957
Momordicoside I	Triterpene	Fruit(unripe) Fruit(unripe) Fruit	Japan Japan Japan	Not stated 00.00818% 00.00006%	T04513 T05957 H27988
Momordicoside J	Triterpene	Fruit(unripe)	Japan	00.00080%	T05957
Momordicoside K	Triterpene	Fruit(unripe) Fruit(unripe) Fruit	Japan Japan Japan	Not stated Not stated 00.00002%	T05887 T04513 H27988
Momordicoside L	Triterpene	Fruit(unripe) Fruit(unripe) Fruit(unripe)	Japan Japan Japan	Not stated Not stated 00.00360%	T05887 T04513 T05957
Momordin	Proteid	Seed	Taiwan	Not stated	M01395
Momordin 2#	Proteid	Seed	China	Not stated	H12613
Momordin A	Proteid	Seed Seed Seed	Japan Not stated Japan	Not stated Not stated Not stated	K12780 M27569 H09788
Momordin B	Proteid	Seed	Japan	Not stated	H09788
Momordin ii#	Proteid	Seed	India	Not stated	H24720
Momordol	Triterpene	Fruit	Pakistan	00.00004%	H19648
Multiflorenol	Triterpene	Seed oil	Japan	Not stated	M15045
Mutatochrome	Carotenoid	Pericarp	USA	Not stated	K03650
Mycose	Carbohydrate	Seed	China	Not stated	M27078

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Myristic acid	Lipid	Fruit	Papua-New Guinea	Not stated	M27944
		Seed oil	India	Not stated	M19217
		Entire plant	Bangladesh	Not stated	L13425
Nerolidol	Sesquiterpene	Seed essential oil	Japan	Not stated	M13369
Niacin	Inorganic	Fruit	Not stated	3-50 ppm	ZZ1047
		Leaf	Not stated	15-103 ppm	
Nitrogen	Inorganic	Fruit	Not stated	33,800 ppm	ZZ1047
Oleanolic acid	Triterpene	Part Not Specified	Egypt	Not stated	J12384
Oleic acid	Lipid	Entire plant	Bangladesh	Not stated	L13425
		Fruit	P.-New Guinea	Not stated	M27944
		Cotyledons	Not stated	15.58%	T06928
Ornithine	Proteid	Seed	Nepal	00.00632%	T06653
Oxalate		Fruit	Not stated	185-1,444 ppm	ZZ1047
Oxalic-acid		Fruit	Not stated	5 ppm	ZZ1047
P-insulin	Proteid	Fruit	India	Not stated	M21799
		Seed	India	Not stated	M21799
Palmitic acid	Lipid	Entire plant	Bangladesh	Not stated	L13425
		Fruit	P.-New Guinea	Not stated	M27944
		Seed oil	India	Not stated	M19217
		Cotyledons	Not stated	02.71%	T06928
		Cotyledons	Not stated	51.95%	T06928
Palmitleic acid	Lipid	Fruit	P.-New Guinea	Not stated	M27944
Pectin	Carbohydrate	Fruit	Not stated	Not stated	ZZ1047
Pentadecan-1-ol	Alkanol c5 or more	Seed essential oil	Japan	Not stated	M13369
Peptide mc-6	Proteid	Fruit	USA	Not stated	L18395
Peptide mc6.1	Proteid	Fruit	USA	Not stated	L18395
Peptide mc6.2	Proteid	Fruit	USA	Not stated	L18395

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Peptide mc6.3	Proteid	Fruit	USA	Not stated	L18395
Peroxidase		Fruit	Not stated	Not stated	ZZ1047
Petroselinic acid	Lipid	Seed oil	India	Not stated	M19217
Phosphorus	Inorganic	Fruit Leaf	Not stated Not stated	320-8,333 ppm 540-33,467 ppm	ZZ1047
Phytofluene	Carotenoid	Pericarp	USA	Not stated	K03650
Pipecolic acid		Fruit	Not stated	Not stated	ZZ1047
Polypeptide-p		Fruit	Not stated	Not stated	ZZ1047
Potassium	Inorganic	Fruit Leaf	Not stated Not stated	2,700-45,000 ppm 5,100-33,117 ppm	ZZ1047
Proline	Proteid	Fruit	India	Not stated	A00487
Protein	Protein	Fruit Leaf	Not stated Not stated	9,000-181,000 ppm 51,000-371,000 ppm	ZZ1047
Riboflavin	Inorganic	Fruit Leaf	Not stated Not stated	0.4-9 ppm 4.6-31 ppm	ZZ1047
Ribonuclease MC1		Seed	Japan	Not Stated	AM1006
Ribosome-inactivating protein 1	Proteid	Seed	Not stated	Not stated	T14056
Ribosome-inactivating protein 2	Proteid	Seed	Not stated	Not stated	T14056
Ribosome-inactivating protein 3	Proteid	Seed	Not stated	Not stated	T14056
Ribosome-inactivating protein 4	Proteid	Seed	Not stated	Not stated	T14056
Rosmarinic acid	Phenylpropanoid	Aerial parts	Peru	Not stated	M28611
Rubixanthin	Carotenoid	Pericarp	Usa	Not stated	K03650
Serine	Proteid	Seed	Nepal	00.00399%	T06653

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Sitosterol,beta:	Steroid	Fruit Fruit Fruit(unripe) Fruit Fruit Suspension culture	Thailand China India Not stated Not stated Not stated	Not stated Not stated Not stated Not stated Not stated Not stated	P00001 L14446 A00475 A00670 A00671 A00475
Sitosterol,beta:D-glucoside	Steroid	Fruit	Not stated	Not stated	ZZ1047
Sodium	Inorganic	Fruit Leaf	Not stated Not stated	20-333 ppm 190-1,234 ppm	ZZ1047
Soya cerebroside I	Lipid	Fruit	China	Not stated	L14446
Spinasterol,alpha:	Steroid	Fruit	Not stated	Not stated	A00631
Squalene	Triterpene	Seed essential oil	Japan	Not stated	M13369
Stearic acid	Lipid	Entire plant Seed oil Fruit Cotyledons Cotyledons	Bangladesh India P.-New Guinea Not stated Not stated	Not stated Not stated Not stated 24.18% 12.12%	L13425 M19217 M27944 T06928 T06928
Stigmasta-5-ene-3-beta-25-diol	Steroid	Fruit	Not stated	Not stated	A00671
Stigmasta-5-25(27)-dien-3-beta-ol,3-o-(6'-o-palmitoyl-beta-d-glucosyl)	Steroid	Fruit Fruit	Philippines Philippines	Not stated Not stated	M24272 M24272
Stigmasta-5-25-dien-3-beta-ol	Steroid	Fruit(unripe) Fruit Fruit	Not stated Not stated Thailand	00.15% Not stated Not stated	J17890 A00671 P00001
Stigmasta-5-25-diene-3-beta-d-glucoside	Steroid	Fruit Fruit	Not stated Not stated	Not stated Not stated	A00670 A00671
Stigmasta-7-22-25-trien-3-beta-ol	Steroid	Fruit	Not stated	Not stated	A00631
Stigmasta-7-22-dien-3-beta-ol	Steroid	Fruit	Not stated	Not stated	A00631

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Stigmasterol	Steroid	Fruit(unripe) Suspension culture	India Not stated	Not stated Not stated	A00475 A00475
Taraxerol	Triterpene	Seed oil	Japan	Not stated	M15045
Thiamin	Inorganic	Fruit Leaf	Not stated Not stated	0.2-12 ppm 1.3-8 ppm	ZZ1047
Threonine	Proteid	Seed	Nepal	00.00178%	T06653
Trehalose	Carbohydrate	Seed	Nepal	00.39600%	T06653
Trehalose,alpha-alpha:	Carbohydrate	Seed	Japan	Not stated	M16315
Trypsin inhibitor mci-3	Proteid	Seed	China	Not stated	M17147
Tryptamine,5-hydroxy:	Indole alkaloid	Fruit	India	Not stated	A00487
Tyrosine	Proteid	Seed	Nepal	00.0517%	T06653
Uracil	Non-alkaloid nitrogen heterocy	Fruit	China	Not stated	L14446
Ureas		Seed	Not stated	Not stated	ZZ1047
Vacine	Not Stated	Seed	China	Not stated	AM1034
V-insulin	Proteid	Fruit	India	Not stated	M27533
Verbascoside	Phenylpropanoid	Aerial parts	Peru	Not stated	M28611
Vicine	Non-alkaloid nitrogen heterocy	Seed Seed Seed Seed Seed	India Nepal Egypt India China	00.05000% 00.40000% Not stated Not stated Not stated	T05754 T06653 H16247 J11478 M27078
Zeatin	Alkaloid	Seed	India	Not stated	T05741
Zeatin riboside	Alkaloid	Seed	India	Not stated	T05741
Zeaxanthin	Carotenoid	Pericarp	USA-RI	Not stated	K03650

Compound	Chemical type	Plant Part	Plant Origin	Quantity	Ref #
Zeinoxanthin	Carotenoid	Pericarp	USA-RI	Not stated	K03650

PHYTOCHEMICAL SCREENING

ALKALOIDS ABSENT	LEAF + STEM	T05306
ALKALOIDS PRESENT	FRUIT	K19538
	ENTIRE PLANT	T04841
	FRUIT(UNRIPE)	T04841
	FRUIT	A00487
	LEAF	M27767
	LEAF + STEM	L16047
SAPONINS(UNSPECIFIED TYPE OR HEMOLYTIC) PRESENT	SEED	A00298
STEROLS PRESENT	LEAF + STEM	M14755
	FRUIT(UNRIPE)	T04841
	FRUIT(UNRIPE)	T04841

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