

Presence of Compounds in Graviola (*Annona muricata*)

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Annocatacin A	Misc Lactone	Leaf Seed	Taiwan	Not stated	AA1034
Annocatacin B	Misc Lactone	Leaf Seed	Taiwan	Not stated	AA1034
Annocatalin	Misc Lactone	Leaf	Taiwan	Not stated	AA1009
Annohexocin	Misc Lactone	Leaf	Not stated	Not stated	H17799
Annomonicin	Misc Lactone	Seed	Guyana	00.00566%	H07609
Annomontacin	Misc Lactone	Seed	Guyana	00.00603%	H07609
Annomontacin, cis	Misc Lactone	Seed	Taiwan	Not stated	AA1009
Annomuricatin B	Misc Lactone	Seed	China	00.00906%	H21843
Annomuricin A	Misc Lactone Misc Lactone	Leaf Pericarp	Indonesia Colombia	00.0004% 00.0021%	H16272 L07801
Annomuricin B	Misc Lactone	Leaf	Indonesia	00.00035%	H16272
Annomuricin C	Misc Lactone	Leaf	Indonesia	00.0004%	H16273
Annomuricin E	Misc Lactone	Leaf	Indonesia	00.000235	H24563
Annomuricin-D-one, cis:	Misc Lactone	Leaf	Indonesia	00.0003%	H19306
Annomuricin-D-one, trans	Misc Lactone	Leaf	Indonesia	00.0003%	H19306
Annomutacin	Misc Lactone	Leaf	Indonesia	00.00035%	H17568
Annonacin	Misc Lactone	Pericarp Seed Seed Seed Seed Root Leaf	Colombia Brazil USA Guyana Guinea Indonesia	00.0032% 01.0% 00.06818% 00.02674% Not stated 00.05411%	L07801 K20560 K10338 H07236 H19768 H16272

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Annonacin A	Misc Lactone	Pericarp Leaf Seed Seed	Colombia Indonesia China China	00.0021% Not stated 00.00142% 00.00521%	L07801 H16274 H22999 H22999
Annonacin B Mesitoate	Misc Lactone	Not stated	China	Not stated	H20484
Annonacin, cis:	Misc Lactone	Seed	Dominican Republic	00.00109%	H18307
Annonacin, iso:	Misc Lactone	Seed	USA	00.00277%	K10338
Annonacin, iso: 2-4-cis:	Misc Lactone	Leaf	Indonesia	Not stated	H16274
Annonacin, iso: 2-4-trans:	Misc Lactone	Leaf Seed	Indonesia China	Not stated Not stated	H16274 AA1011
Annonacin, iso: 10-one, 2,4-trans	Misc Lactone	Seed	China	Not stated	AA1011
Annonacin-10-one	Misc Lactone	Seed	USA	00.00136%	K10338
Annonacin-10-one, cis:	Misc Lactone	Seed	Dominican Republic	00.000909%	H18307
Annonacin-10-one, iso:	Misc Lactone	Seed	USA	00.00113%	K10338
Annonacin-10-one, iso: neo:	Misc Lactone	Seed	China	Not stated	H15501
Annonacin-A-one, cis-2-4: 10(r):	Misc Lactone	Leaf	Indonesia	00.00017%	H17568
Annonacin-A-one, trans-2-4: 10(r):	Misc Lactone	Leaf	Indonesia	00.00017%	H17568
Annonacinone	Misc Lactone	Seed Seed Seed Seed	Guyana Guyana Brazil Guyana	00.01811% 00.2% 01.07% 00.00697%	H07609 H07609 K20560 H07236
Annonaine	Isoquinoline Alkaloid	Fruit	Surinam	Not stated	J14527
Annopentocin A	Misc Lactone	Leaf	Indonesia (cult)	00.0004%	H19306
Annopentocin B	Misc Lactone	Leaf	Indonesia (cult)	00.0005%	H19306
Annopentocin C	Misc Lactone	Leaf	Indonesia (cult)	00.00035%	H19306
Anomuricine	Isoquinoline Alkaloid	Root Bark Leaf	Guyana Guyana Guyana	Not stated Not stated Not stated	T02076 T04073 T04073

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Anomurine	Isoquinoline Alkaloid	Root Bark Leaf	Guyana Guyana Guyana	Not stated Not stated Not stated	T02076 T04073 T04073
Anonaine	Isoquinoline Alkaloid	Fruit	Surinam	Not stated	J10986
Anonol	Alkanol C5 or More	Leaf Leaf	Dominican Republic West Indies	Not stated Not stated	A04099 W02289
Asimilobine	Isoquinoline Alkaloid	Fruit	Surinam	Not stated	J10986
Atherospermine	Isoquinoline Alkaloid	Stembark	Philippines	Not stated	A04095
Atherosperminine	Isoquinoline Alkaloid	Root Bark	Bark Bark	Not stated Not stated	T02076 T04073
Coclaurine,(+):	Isoquinoline Alkaloid	Root Bark Leaf	Guyana Guyana Guyana	Not stated Not stated Not stated	T02076 T04073 T04073
Cohibin A	Misc Lactone	Seed Root	Brazil Guinea	Not stated 00.00116%	H26434 H19768
Cohibin B	Misc Lactone	Seed Root	Brazil Guinea	Not stated Not stated	H26434 H19768
Cohibin C	Misc Lactone	Seed	Brazil	Not stated	H26434
Cohibin D	Misc Lactone	Seed	Brazil	Not stated	H26434
Corepoxylone	Misc Lactone	Seed	Brazil	00.00062%	H12235
Coreximine, (+):	Isoquinoline Alkaloid	Root	Guyana	Not stated	T02076
Coreximine, (-):	Isoquinoline Alkaloid	Bark Leaf	Guyana Guyana	Not stated Not stated	T04073 T04073
Coronin	Misc Lactone	Root	Guinea	00.0003%	H28460
Corossolin	Misc Lactone	Seed Seed Seed	Guyana Brazil Taiwan	00.00290% 01.01% Not stated	H07236 K20560 H28040

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Corossolone	Misc Lactone	Seed Seed Seed Seed	Guyana Brazil Brazil Taiwan	00.00232% 01.02% 00.00042% Not stated	H07236 K20560 H14312 H28040
Corossolone, cis	Misc Lactone	Leaf	Taiwan	Not stated	AA1009
Donhexocin	Misc Lactone	Seed	China	00.0005%	H22999
Epomuricenin A	Misc Lactone	Seed Root	Brazil Guinea	00.00278% Not stated	H14312 H19768
Epomuricenin B	Misc Lactone	Seed Root	Brazil Guinea	00.00278% Not stated	H14312 H19768
Gentisic Acid	Benzenoid	Leaf	Trinidad	Not stated	A06190
Gigantetrocin	Misc Lactone	Seed	USA	00.00221%	K10338
Gigantetrocin A	Misc Lactone	Seed	Dominican Republic	00.00181%	H12985
Gigantetrocin B	Misc Lactone	Seed	Dominican Republic	00.00136%	H12985
Gigantetrocinone, 2,4-cis	Misc Lactone	Seed	China	Not stated	AA1011
Gigantetrocinone, 2,4-trans	Misc Lactone	Seed	China	Not stated	AA1011
Gigantetronenin	Misc Lactone	Leaf	Indonesia	Not stated	H16273
Goniothalamycin	Misc Lactone	Seed Seed Leaf Seed Seed	Guyana USA Indonesia Dominican Republic Brazil	00.01660% 00.00059% Not stated 00.00568% Not stated	H07609 K10338 H16272 H18307 K20560
Goniothalamycin, cis:	Misc Lactone	Seed	Dominican Republic	00.00127%	H18307
Javoricin	Misc Lactone	Seed	Dominican Republic	00.00072%	H18307
KCL	Inorganic	Leaf Leaf	West Indies Dominican Republic	Not stated Not stated	W02289 A04099
Lignoceric Acid	Lipid	Leaf	Dominican Republic	Not stated	A04099

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Linoleic Acid	Lipid	Leaf Leaf	West Indies Dominican Republic	Not stated Not stated	W02289 A04099
Longifolicin	Not stated	Seed	China	Not stated	AA1017
Montanacin	Misc Lactone	Seed	Guyana	00.02490%	H07609
Montecristin	Misc Lactone	Root	Guinea	00.00233%	H19211
Muracin A	Misc Lactone	Seed	Taiwan	Not stated	H28040
Muracin B	Misc Lactone	Seed	Taiwan	Not stated	H28040
Muracin C	Misc Lactone	Seed	Taiwan	Not stated	H28040
Muracin D	Misc Lactone	Seed	Taiwan	Not stated	H28040
Muracin E	Misc Lactone	Seed	Taiwan	Not stated	H28040
Muracin F	Misc Lactone	Seed	Taiwan	Not stated	H28040
Muracin G	Misc Lactone	Seed	Taiwan	Not stated	H28040
Muricapentocin	Misc Lactone	Leaf	Indonesia	00.00028%	H24563
Muricatalicin	Misc Lactone	Leaf	China	Not stated	AA1027
Muricatalin	Misc Lactone	Leaf	China	Not stated	AA1027
Muricatenol	Misc Lactone	Seed	China	Not stated	AA1011
Muricatetrocin A	Misc Lactone	Seed Leaf Seed	Dominican Republic Indonesia Taiwan	00.00045% Not stated Not stated	H12985 H16272 H28040
Muricatetrocin B	Misc Lactone	Seed Leaf Seed	Dominican Republic Indonesia Taiwan	00.00045% Not stated Not stated	H12985 H16272 H28040
Muricatin D	Misc Lactone	Seed	China	00.00085%	H21114
Muricatocin A	Misc Lactone	Leaf	Indonesia	00.00045%	H16274
Muricatocin B	Misc Lactone	Leaf	Indonesia	00.0004%	H16274
Muricatocin C	Misc Lactone	Leaf	Indonesia	Not stated	H16273

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Muricin H	Misc Lactone	Seed	Taiwan	Not stated	AA1009
Muricin I	Misc Lactone	Seed	Taiwan	Not stated	AA1009
Muricine	Alkaloid-misc	Bark	Not stated	Not stated	A04104 A05062
Muricinine	Alkaloid-misc	Bark	Not stated	Not stated	A04104 A05062
Muricoreacin	Misc Lactone	Leaf	Indonesia	00.00038%	H22688
Murihexocin 3	Misc Lactone	Leaf	USA	Not stated	H17719
Murihexocin A	Misc Lactone	Leaf	USA	Not stated	H17719
Murihexocin C	Misc Lactone	Leaf	Indonesia	00.00015%	H22688
Murihexol	Misc Lactone	Seed	China	00.00035%	H22999
Murin A, epoxy:	Misc Lactone	Stembark	India	Not stated	H12242
Murisolin	Misc Lactone	Seed Seed Seed Seed	French Guiana China Brazil Guyana	00.00930% 00.00311% 00.00060% 00.0093%	H06211 H21114 H14312 H07236
N-fatty acyl tryptamines	Lipid	Seed	China	Not stated	AA1011
Oleic Acid	Lipid	Leaf Leaf	Dominican Republic West Indies	Not stated Not stated	A04099 W02289
Otivarin	Not stated	Not stated	Italy	Not stated	AA1022
Panatellin, cis	Misc Lactone	Root	Guinea	00.00216%	H21880
Reticulatacin, cis:	Misc Lactone	Root	Guinea	00.00083%	H21880
Reticuline	Isoquinoline Alkaloid	Stembark	Philippines	Not stated	A04095
Reticuline, (+)	Isoquinoline Alkaloid	Root Bark Leaf	Guyana Guyana Guyana	Not stated Not stated Not stated	T02076 T04073 T04073
Robustocin	Misc Lactone	Seed	Brazil	00.00043%	H26304

Compound	Chemical Type	Plant Part	Plant Origin	Quantity	Ref #
Rolin B, epoxy:	Misc Lactone	Seed	China	00.00285%	H21114
Rolliniastatin 1	Misc Lactone	Seed	Brazil	Not stated	K20560
Rolliniastatin 2	Misc Lactone	Seed	Brazil	Not stated	K20560
Sabadelin	Misc Lactone	Seed	Guinea	00.00116%	H25221
Solamin	Misc Lactone	Seed Stembark Seed Root Seed	Brazil India Brazil Guinea French Guiana	00.00036% Not stated Not stated 00.00005% 00.00116%	H14312 H12242 K20560 K20560 H07234
Solamin, cis:	Misc Lactone	Root	Guinea	00.00216%	H21880
Tyramine, n-para-coumaroyl:	Isoquinoline Alkaloid	Leaf	Indonesia	Not stated	H17568
Uvariamicin I, cis:	Misc Lactone	Root	Guinea	00.00083%	H21880
Uvariamicin IV, cis	Misc Lactone	Root	Guinea	00.0005%	H21880
Xylomaticin	Misc Lactone	Seed	Taiwan	Not stated	AA1009

PHYTOCHEMICAL SCREENING:

Alkaloids Absent	Leaf + Stem	T05306
Alkaloids Present	Bark + Leaf + Seed	L16047
	Leaf	A04099
	Entire Plant	T06830
Hydrocyanic Acid Absent	Entire Plant	T06830
Leucoanthocyanins Present	Entire Plant	T06830
Quinones Absent	Entire Plant	T06830
Saponins Absent	Entire Plant	T06830

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