

# A Calmodulin-Antagonist

\*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	# Chemicals	Total PPM
<i>Abelmoschus moschatus</i> Musk Okra; Muskmallow; Tropical Jewel Hibiscus; Ambrette	1	
<i>Abelmoschus esculentus</i> Okra	1	
<i>Abutilon theophrasti</i> Butterprint; Abutilon-Hemp; Velvet Leaf; Indian-Mallow	1	
<i>Acacia senegal</i> Gum Arabic Tree; Senegal Gum; Sudan Gum Arabic; Gum Arabic; Kher	1	
<i>Acacia nilotica</i> Babul	1	
<i>Acacia catechu</i> Catechu; Black Cutch	1	
<i>Achillea millefolium</i> Yarrow; Milfoil	1	
<i>Acinos suaveolens</i>	1	
<i>Actinidia chinensis</i> Kiwi	1	
<i>Aesculus hippocastanum</i> Horse Chestnut	1	
<i>Agathosma betulina</i> Mountain Buchu; Buchu; Honey Buchu	1	
<i>Ageratum conyzoides</i> Mexican ageratum	1	
<i>Agrimonia eupatoria</i> Agrimony; Sticklewort	1	
<i>Ailanthus altissima</i> Stinktree; Tree Of Heaven	1	
<i>Albizia lebeck</i> Frywood; East Indian Walnut; Koko; Women's-Tongue Tree; Siris Tree; Lebbek; Lebbek Tree	1	
<i>Allium schoenoprasum</i> Chives	1	18.0
<i>Allium sativum</i> var. <i>sativum</i> Garlic	1	400.0
<i>Allium cepa</i> Shallot; Onion	1	96200.0
<i>Alpinia officinarum</i> Chinese Ginger; Lesser Galangal	1	
<i>Althaea officinalis</i> White Mallow; Marshmallow	1	
<i>Ammi visnaga</i> Visnaga	1	
<i>Ammi majus</i> Bishop's Weed	1	
<i>Anastatica hierochuntica</i> Jericho Rose	1	
<i>Anemone pulsatilla</i> Pasque Flower	1	
<i>Anethum graveolens</i> Garden Dill; Dill	1	
<i>Anogeissus latifolia</i> Gum Ghatti	1	
<i>Apium graveolens</i> Celery	1	
<i>Arachis hypogaea</i> Groundnut; Peanut	1	
<i>Araucaria bidwillii</i> Monkey puzzle	1	
<i>Arctostaphylos uva-ursi</i> Uva Ursi; Bearberry	1	
<i>Ardisia japonica</i> Marlberry	1	
<i>Armoracia rusticana</i> Horseradish	1	
<i>Artemisia dracunculus</i> Tarragon	1	
<i>Artemisia annua</i> Sweet Annie; Annual Wormwood (GRIN); Sweet Wormwood (GRIN); Qinghao; Annual Mugwort (GRIN)	1	
<i>Artocarpus altilis</i> Breadfruit	1	
<i>Asimina triloba</i> Pawpaw	1	
<i>Aspalathus linearis</i> Red Bush Tea; Kaffree Tea; Rooibos	1	
<i>Asparagus officinalis</i> Asparagus	1	
<i>Astragalus membranaceus</i> Huang Qi; Huang-Chi	1	

Plant	# Chemicals	Total PPM
<i>Avena sativa</i> Oats	1	620.0
<i>Azadirachta indica</i> Neem	1	2000.0
<i>Barosma betulina</i> Buchu	1	
<i>Basella alba</i> Vinespinach	1	
<i>Berberis vulgaris</i> Barberry	1	
<i>Beta vulgaris</i> Beet; Sugar Beet; Beetroot; Garden Beet	1	
<i>Borago officinalis</i> Beeplant; Beebread; Talewort; Borage	1	
<i>Brassica oleracea</i> var. <i>sabellica</i> l. Curly Kale; Kitchen Kale; Kale; Scotch Kale	1	100.0
<i>Brassica oleracea</i> var. <i>italica</i> Sprouting Broccoli; Asparagus Broccoli; Purple Cauliflower; Calabrese; Broccoli; Winter Broccoli; Heading Broccoli; Cape Broccoli	1	
<i>Brassica oleracea</i> var. <i>gemmifera</i> Brussels-Sprouts; Brussel-Sprout	1	50.0
<i>Brassica oleracea</i> var. <i>capitata</i> l. Red Cabbage; Cabbage; White Cabbage	1	200.0
<i>Brassica oleracea</i> var. <i>botrytis</i> l. Cauliflower	1	12.0
<i>Brassica oleracea</i> Kohlrabi	1	40.0
<i>Caesalpinia pulcherrima</i> Bird Of Paradise	1	
<i>Calendula officinalis</i> Calendula; Pot-Marigold	1	
<i>Camellia sinensis</i> Tea	1	20000.0
<i>Camptotheca acuminata</i> Happy Tree	1	
<i>Capparis spinosa</i> Caperbush; Caper	1	
<i>Capsicum frutescens</i> Chili; Cayenne; Hot Pepper; Tabasco; Spur Pepper; Red Chili	1	126.0
<i>Carum carvi</i> Comino (Sp.); Carum; Kummel (Ger.); Caraway; Comino de prado (Sp.)	1	
<i>Castanea sativa</i> European Chestnut	1	
<i>Catharanthus roseus</i> Rosy Periwinkle; Madagascar Periwinkle	1	
<i>Cedrus deodora</i> Deodar Cedar	1	
<i>Ceiba pentandra</i> Kapok; Silk-Cotton Tree	1	
<i>Centaurea cyanus</i> Cornflower; Bachelor's Button	1	
<i>Centaurea calcitrapa</i> Star-Thistle	1	
<i>Centella asiatica</i> Gotu Kola; Pennywort	1	
<i>Ceratonia siliqua</i> Locust Bean; Carob; St.John's-Bread	1	
<i>Cichorium intybus</i> Chicory; Witloof; Succory	1	
<i>Cichorium endivia</i> Endive; Escarole	1	
<i>Cinnamomum camphora</i> Ho Leaf; Camphor	1	
<i>Citrus sinensis</i> Orange	1	
<i>Citrus paradisi</i> Grapefruit	1	
<i>Citrus limon</i> Lemon	1	
<i>Commiphora wightii</i> Indian Bdellium-Tree; Guggul	1	
<i>Consolida ajacis</i> Larkspur	1	
<i>Coriandrum sativum</i> Cilantro; Coriander; Chinese Parsley	1	
<i>Coriaria thymifolia</i> Ground Toot; Shanshi	1	
<i>Coriaria myrtifolia</i> Mealy Tree	1	
<i>Cornus mas</i> Sorbet; Cornelian Cherry	1	
<i>Cornus florida</i> American Dogwood	1	

Plant	# Chemicals	Total PPM
<i>Corylus avellana</i> English Filbert; Hazel; European Hazel; European Filbert; Cobnut	1	1
<i>Crataegus rhipidophylla</i> Hawthorn	1	1
<i>Crataegus monogyna</i> English Hawthorn; Hawthorn	1	1
<i>Crataegus laevigata</i> English Hawthorn; Whitethorn; Woodland Hawthorn; Hawthorn	1	1
<i>Crataegus cuneata</i> Hawthorn	1	1
<i>Crocus sativus</i> Saffron	1	1
<i>Cucurbita pepo</i> Pumpkin	1	1
<i>Curcuma longa</i> Turmeric; Indian Saffron	1	1
<i>Cyamopsis tetragonoloba</i> Guar; Siam-Bean; Cluster-Bean	1	1
<i>Cymbopogon citratus</i> West Indian Lemongrass; Lemongrass	1	1
<i>Cynara cardunculus</i> Artichoke	1	1
<i>Cytisus scoparius</i> Scotch Broom	1	1
<i>Daucus carota</i> Carrot	1	1
<i>Diospyros virginiana</i> American Persimmon	1	1
<i>Dodonaea viscosa</i> Hopwood	1	1
<i>Drimys winteri</i> Winter's Bark	1	1
<i>Echinacea</i> spp Coneflower; Echinacea	1	1
<i>Echinacea purpurea</i> Echinacea; Eastern Purple-Coneflower; Purple-Coneflower	1	1
<i>Echinacea angustifolia</i> Echinacea; Narrow Leaf Purple-Coneflower; Narrow Leaf Echinacea	1	1
<i>Elaeagnus angustifolia</i> Russian Olive; Silver Berry	1	1
<i>Equisetum arvense</i> Horsetail; Field Horsetail	1	1
<i>Eriobotrya japonica</i> Loquat	1	1
<i>Eucalyptus globulus</i> Eucalypt; Blue Gum; Tasmanian Bluegum	1	1
<i>Eucommia ulmoides</i> Tu Chung; Gutta-Percha Tree; Du Zhong	1	1
<i>Eupatorium perfoliatum</i> Boneset	1	1
<i>Euphorbia lathyris</i> Mole Plant; Caper Spurge	1	1
<i>Euphorbia hirta</i> Queensland Asthma Herb	1	1
<i>Euphrasia officinalis</i> Eyebright	1	1
<i>Fagopyrum esculentum</i> Buckwheat	1	1
<i>Ficus carica</i> Figueira (Port.); Fig; Feigenbaum (Ger.); Figuier Commun (Fr.); Fico (Ital.); Higo (Sp.); Echte Feige (Ger.); Higuera Comun (Sp.)	1	1
<i>Filipendula ulmaria</i> Queen Of The Meadow; Meadowsweet	1	1
<i>Foeniculum vulgare</i> Fennel	1	1
<i>Forsythia suspensa</i> Lian-Jiao; Lien-Chiao	1	1
<i>Fragaria</i> spp Strawberry	1	1
<i>Galega officinalis</i> Galega; Goat's Rue	1	1
<i>Geranium thunbergii</i> Oriental Geranium; Gennoshiouko	1	1
<i>Ginkgo biloba</i> Ginkgo; Maidenhair Tree	1	1
<i>Glycine max</i> Soybean	1	1
<i>Glycyrrhiza uralensis</i> Kan-Tsao; Gan-Cao; Chinese Licorice	1	1
<i>Glycyrrhiza glabra</i> Smooth Licorice; Commom Licorice; Licorice-Root; Licorice	1	1
<i>Gossypium</i> sp Cotton	1	1

Plant	# Chemicals	Total PPM
Guazuma tomentosa	1	
Haematoxylum campechianum Campechy; Logwood	1	
Hamamelis virginiana Witch Hazel	1	
Helianthus annuus Girasol; Sunflower	1	1220.0
Hibiscus rosa-sinensis Shoe-flower; Chinese hibiscus	1	
Hippophae rhamnoides Yellow Spine; Sea Buckthorn; Sallow Thorn	1	
Holarrhena pubescens Zhi Xie Mu; Kurchi; Conessi; Tellicherry Bark	1	
Houttuynia cordata Dokudami; Fishwort; Yu Xing Cao	1	
Humulus lupulus Hops	1	
Hydrangea arborescens Smooth Hydrangea; Hydrangea	1	
Hypericum perforatum Common St. Johnswort; Klamath Weed; Hypericum; Goatweed; St. John's-wort	1	
Inula helenium Elecampane	1	
Ipomoea batatas Sweet Potato	1	
Isatis tinctoria Dyer's Woad	1	
Juglans regia English Walnut	1	
Juglans nigra Black Walnut	1	
Juniperus communis Common Juniper; Juniper	1	
Kalanchoe spathulata Beach Bells	1	
Kalanchoe pinnata Siempre Viva; Air Plant	1	
Lactuca sativa Lettuce	1	
Laurus nobilis Grecian Laurel; Sweet Bay; Bay; Laurel; Bayleaf; Bay Laurel	1	
Ledum palustre Marsh Tea; Wild Rosemary	1	
Leonurus cardiaca Motherwort	1	
Ligustrum lucidum Ligustri Fructus; Glossy Privet; White Waxtree; Chinese Privet; Privet	1	
Ligustrum japonicum Ligustri Fructus; Japanese Privet	1	
Lippia dulcis Sweet Herb	1	
Ludwigia perennis Perennial ludwigia	1	
Ludwigia adscendens Ascending ludwigia	1	
Lycium chinense Daun Koki (Indones.); Lyciet de Chine (Fr.); Chinese Matrimony Vine; Gou Qi (Chin.); Chinesischer Bocksborn (Ger.); Chinese Boxthorn; Kaukichai (Malays.); Chinese Wolfberry; Spina Santa Cinese (Ital.); Wolfberry; Kuko (Jap.)	1	
Lycopersicon esculentum Tomato	1	
Maclura pomifera Osage-Orange; Hedge Apple	1	
Magnolia officinalis Magnolia-Bark; Chinese Magnolia; Hou Pu	1	
Magnolia kobus Hsin-I; Xin-Yi	1	
Magnolia denudata Hsin-I; Xin-Yi	1	
Malus domestica Apple	1	526.0
Mangifera indica Mango	1	
Maranta arundinacea Arrowroot; Bermuda Arrowroot	1	
Marrubium vulgare White Horehound; Horehound	1	
Matricaria recutita German Camomile; Annual Camomile; Wild Camomile	1	
Medicago sativa Alfalfa; Lucerne	1	
Melia azedarach Chinaberry	1	
Melilotus officinalis Yellow Sweetclover	1	

Plant	# Chemicals	Total PPM
<i>Menyanthes trifoliata</i> Marsh Trefoil; Bogbean; Marsh Clover; Water Trefoil; Bog Myrtle; Buckbean	1	
<i>Moringa oleifera</i> West Indian Ben; Jacinto (Sp.); Horseradish Tree; Moringa; Benzolive Tree; Ben Nut; Drumstick Tree	1	
<i>Morus alba</i> Sang-Pai-Pi; White Mulberry	1	
<i>Musa x paradisiaca</i> Plantain; Banana	1	
<i>Myristica fragrans</i> nuez moscada (Sp.); Muskatnussbaum (Ger.); Mace; Nutmeg; nogal moscado (Sp.)	1	
<i>Nelumbo nucifera</i> Water Lotus	1	
<i>Nerium oleander</i> Oleander	1	
<i>Nicotiana tabacum</i> Tobacco	1	
<i>Ocimum basilicum</i> Cuban Basil; Sweet Basil; Basil	1	
<i>Oenothera biennis</i> Evening-Primrose	1	414000.0
<i>Olea europaea</i> Olive	1	
<i>Ononis spinosa</i> Hauhechel (Ger.); Spiny Restharrow; Restharrow	1	
<i>Origanum vulgare</i> Oregano; Pot Marjoram; European Oregano; Wild Oregano; Wild Marjoram; Common Turkish Oregano	1	
<i>Paeonia suffruticosa</i> Moutan; Tree Peony; Moutan Peony	1	
<i>Paeonia moutan</i> Moutan; Tree Peony	1	
<i>Paeonia lactiflora</i> Chih-Shao; Common Garden Peony; Peony; Bai Shao (Chinese); White Peony	1	
<i>Panax notoginseng</i> Sanchi Ginseng	1	
<i>Passiflora incarnata</i> Passionflower; Mayapple; Manzana de Mayo	1	
<i>Pastinaca sativa</i> Parsnip	1	
<i>Perilla frutescens</i> Perilla	1	
<i>Persea americana</i> Avocado	1	
<i>Petasites hybridus</i> European Butterbur	1	
<i>Petroselinum crispum</i> Parsley	1	
<i>Phoenix dactylifera</i> Date Palm	1	
<i>Phyllanthus niruri</i> Seed On The Leaf	1	
<i>Phyllanthus emblica</i> Myrobalan; Emblic	1	
<i>Pimpinella anisum</i> Sweet Cumin; Anise	1	
<i>Pinus sylvestris</i> Scotch Pine	1	
<i>Pinus mugo</i> Dwarf Pine; Swiss Mountain Pine	1	
<i>Piper nigrum</i> Black Pepper; Pepper; White Pepper	1	
<i>Pistacia lentiscus</i> Chios Mastictree; Mastictree; Mastixbaum (Ger.); Mastic; Lentisco (Sp.)	1	
<i>Plumeria acutifolia</i> Frangipani	1	
<i>Podophyllum pleianthum</i> Chinese Mayapple	1	
<i>Podophyllum peltatum</i> Mayapple	1	100000.0
<i>Podophyllum hexandrum</i> Himalayan Mayapple	1	
<i>Polygonum hydropiperoides</i> Mild Water Pepper	1	
<i>Polygonum hydropiper</i> Common Smartweed	1	
<i>Polygonum aviculare</i> Prostrate Knotweed	1	
<i>Populus tacamahacca</i> Balm Of Gilead	1	
<i>Prosopis juliflora</i> Mesquite	1	
<i>Prunella vulgaris</i> Self-Heal; Heal-All	1	
<i>Prunus spinosa</i> Blackthorn; Sloe	1	

Plant	# Chemicals	Total PPM
<i>Prunus serotina</i> Black Cherry; Wild Cherry	1	
<i>Prunus persica</i> Peach	1	
<i>Prunus laurocerasus</i> Cherry Laurel	1	
<i>Prunus dulcis</i> Almond	1	
<i>Prunus domestica</i> Plum	1	
<i>Prunus cerasus</i> Sour Cherry	1	
<i>Prunus armeniaca</i> Apricot	1	
<i>Psidium guajava</i> Guava	1	
<i>Psidium cattleianum</i> Strawberry Guava	1	
<i>Pteridium aquilinum</i> Bracken; Bracken Fern	1	
<i>Pueraria montana</i> Kudsu; Kudzu	1	
<i>Punica granatum</i> Pomegranate; Zakuro (Jap.); Granatapfelbaum (Ger.); Grenadier (Fr.); Granatapfelstrauch (Ger.); Granado (Sp.); Mangrano (Sp.); Romanzeiro (Port.)	1	
<i>Pyrus communis</i> Pear	1	56.0
<i>Quercus velutina</i> Black Oak	1	
<i>Quercus robur</i> English Oak	1	
<i>Quercus infectoria</i> Gall Oak; Aleppo Oak; Dyer's Oak	1	
<i>Quercus alba</i> White Oak	1	
<i>Rhododendron dauricum</i> Chinese Alpenrose	1	
<i>Rhus toxicodendron</i> Poison Ivy	1	
<i>Rhus coriaria</i> Sicilian Sumac; Tanner's Sumac; Sumac	1	
<i>Ribes nigrum</i> Black Currant	1	
<i>Ricinus communis</i> Castorbean	1	
<i>Rosa</i> spp Rose Hips	1	
<i>Rosa damascena</i> Damask Rose	1	
<i>Rubus idaeus</i> Raspberry; Red Raspberry	1	
<i>Rumex crispus</i> Lengua De Vaca; Curly Dock; Sour Dock; Yellow Dock	1	
<i>Rumex acetosa</i> Garden Sorrel	1	
<i>Ruta graveolens</i> Rue	1	
<i>Salix alba</i> White Willow	1	
<i>Sambucus nigra</i> European Elder; European Elderberry; Black Elder; Elder; European Alder	1	
<i>Sambucus canadensis</i> American Elder; Sweet Elder; Elderberry; American Elderberry	1	
<i>Sanguisorba officinalis</i> Greater Burnet	1	
<i>Sanguisorba minor</i> Small Burnet	1	
<i>Schinus terebinthifolius</i> Brazilian Peppertree	1	
<i>Schinus molle</i> Peruvian Peppertree; California Peppertree; Mastic-Tree	1	
<i>Senna occidentalis</i> Coffee Senna	1	
<i>Silybum marianum</i> Milk Thistle; Lady's Thistle	1	
<i>Solanum tuberosum</i> Potato	1	
<i>Solidago virgaurea</i> European Goldenrod; Woundwort	1	
<i>Solidago gigantea</i> Early Goldenrod	1	
<i>Sophora japonica</i> Japanese Pagoda Tree	1	

Plant	# Chemicals	Total PPM
<i>Sorbus aucubaria</i> Rowan Berry	1	
<i>Spartium junceum</i> Spanish Broom; Genet; Weaver's Broom	1	
<i>Spinacia oleracea</i> Spinach	1	38.0
<i>Syzygium aromaticum</i> Clovetree; Clove	1	
<i>Tabebuia impetiginosa</i> Taheebo; Pau d'arco	1	
<i>Tagetes patula</i> French Marigold	1	
<i>Tagetes minuta</i> Dwarf Marigold; Stinking-Roger; Aztec Marigold; Wild Marigold; Mexican Marigold; Muster John Henry	1	
<i>Tanacetum vulgare</i> Tansy	1	
<i>Taraxacum officinale</i> Dandelion	1	
<i>Terminalia ivorensis</i> Satinwood; Brimstonewood; Shinglewood; Black Afara; Idigbo; Blackbark; Emire	1	
<i>Terminalia chebula</i> Black Myrobalan; Ink Nut; Chebulic Myrobalan; Myrobalan	1	
<i>Terminalia catappa</i> Malabar Almond; Indian Almond; Tropical Almond	1	
<i>Teucrium scordium</i> Water Germander	1	
<i>Teucrium montanum</i> Mountain Germander	1	
<i>Teucrium botrys</i> Field Germander	1	
<i>Theobroma cacao</i> Cacao	1	
<i>Thespesia populnea</i> Indian tulip tree	1	
<i>Thevetia peruviana</i> Peruvian Yellow Oleander; Yellow Oleander; Cabalonga (Sp.); Chirca (Sp.); Luckynut; Adelfa Amarilla (Sp.); <i>Thevetia</i> (Ger.); <i>Oleandre Jaune</i> (Fr.); <i>Loandro-Amarelo</i> (Port.)	1	
<i>Tilia</i> sp. Lime; Linden; Basswood	1	
<i>Tribulus terrestris</i> Puncture-vine	1	
<i>Tridax procumbens</i> Mexican daisy; Coatbuttons	1	
<i>Trifolium pratense</i> Red Clover; Cowgrass; Purple Clover; Peavine Clover	1	
<i>Trigonella foenum-graecum</i> Alholva (Sp.); Greek Hay; Greek Clover; Bockshornklee (Ger.); Fenugreek	1	
<i>Triticum aestivum</i> Wheat	1	
<i>Tussilago farfara</i> Coltsfoot	1	
<i>Uncaria catechu</i> Pale Catechu; Gambir	1	
<i>Urginea maritima</i> European Squill	1	
<i>Urtica dioica</i> European Nettle; Stinging Nettle	1	
<i>Vaccinium vitis-idaea</i> Cowberry; Lingen; Lingonberry	1	
<i>Vaccinium myrtillus</i> Whortleberry; Dwarf Bilberry; Bilberry	1	
<i>Vaccinium macrocarpon</i> American Cranberry; Cranberry; Large Cranberry	1	500.0
<i>Vaccinium corymbosum</i> Blueberry	1	
<i>Valeriana officinalis</i> Common Valerian; Valerian; Garden-Heliotrope	1	
<i>Viburnum opulus</i> Crampbark; Snowballbush; European Cranberry Bush; Guelder Rose	1	
<i>Vigna radiata</i> Green Gram; Mungbean	1	
<i>Viola tricolor</i> Pansy; Wild Violet	1	
<i>Viola odorata</i> Sweet Violet; Common Violet	1	
<i>Vitis vinifera</i> Weinrebe (Ger.); Wine Grape; European Grape; Vigne Vinifere (Fr.); Parra (Sp.); Grape; Vid (Sp.); Grapevine	1	
<i>Withania somnifera</i> Ashwagandha	1	
<i>Zea mays</i> Corn	1	
<i>Zingiber officinale</i> Ginger	1	