

A Elastase-Inhibitor

*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>Achyranthes bidentata</i> Chaff Flower	1	
<i>Achyranthes aspera</i> Chaff Flower	1	
<i>Agastache rugosa</i>	1	
<i>Agrimonia eupatoria</i> Sticklewort; Agrimony	1	12000.0
<i>Akebia quinata</i> Chocolate Vine	1	
<i>Albizia lebeck</i> Lebbek Tree; East Indian Walnut; Siris Tree; Frywood; Lebbek; Koko; Women's-Tongue Tree	1	
<i>Allium sativum</i> var. <i>sativum</i> Garlic	1	
<i>Allium cepa</i> Shallot; Onion	1	
<i>Annona cherimola</i> Cherimoya	1	
<i>Apocynum cannabinum</i> Bitterroot; Spreading Dogbane	1	
<i>Arbutus unedo</i> Strawberry Tree; Arbutus	1	
<i>Arctostaphylos uva-ursi</i> Uva Ursi; Bearberry	2	15000.0
<i>Artemisia annua</i> Annual Mugwort (GRIN); Qinghao; Sweet Annie; Sweet Wormwood (GRIN); Annual Wormwood (GRIN)	1	
<i>Artocarpus heterophyllus</i> Jackfruit	1	
<i>Berberis vulgaris</i> Barberry	1	
<i>Boswellia serrata</i> Indian Olibanum-Tree; Salaki; Indian Frankincense; Kundur Luban; Salai Guggal; Salai	1	
<i>Calendula officinalis</i> Calendula; Pot-Marigold	1	
<i>Catalpa bignonioides</i> Indian bean	1	
<i>Catharanthus roseus</i> Madagascar Periwinkle; Rosy Periwinkle	2	
<i>Centaurium erythraea</i> Centaury	1	
<i>Chenopodium quinoa</i>	1	
<i>Chenopodium album</i> Lambsquarter	1	
<i>Chimaphila umbellata</i> Pipsissewa; King's Cure	2	
<i>Chrysanthemum x morifolium</i> Ju Hua (Pinyin); Mum; Florist's Chrysanthemum; Chrysanthemum	1	
<i>Cinnamomum verum</i> Ceylon Cinnamon; Cinnamon	1	
<i>Cinnamomum sieboldii</i> Japanese Cinnamon	1	
<i>Cinnamomum aromaticum</i> Canelero chino (Sp.); Chinese Cassia; Saigon Cinnamon; Chinazimt (Ger.); Canela de la China (Sp.); Chinesischer Zimtbaum (Ger.); Kashi-Keihi (Jap.); Zimtcassie (Ger.); Cassia Lignea; Chinese Cinnamon; China Junk Cassia; Cannelle de Cochinchine (Fr.); Cassia Bark; Cassia; Cannelier Casse (Fr.); Cannelier de Chine (Fr.)	1	
<i>Citrullus colocynthis</i> Colocynth	1	
<i>Cnicus benedictus</i> Blessed Thistle	2	
<i>Cornus officinalis</i> Chinese Dogwood	2	
<i>Cornus mas</i> Cornelian Cherry; Sorbet	1	
<i>Cornus florida</i> American Dogwood	1	
<i>Crataegus rhipidophylla</i> Hawthorn	1	
<i>Crataegus monogyna</i> English Hawthorn; Hawthorn	3	
<i>Crataegus laevigata</i> Whitethorn; Hawthorn; English Hawthorn; Woodland Hawthorn	3	
<i>Crataegus cuneata</i> Hawthorn	1	
<i>Crocus sativus</i> Saffron	1	
<i>Croton lechleri</i> Sangre de Dragon; Sangre de Drago; Sangre de Grado; Dragons Blood	1	

Plant	# Chemicals	Total PPM
<i>Cryptostegia grandifolia</i> Rubber Vine	1	
<i>Cyperus rotundus</i> Nutsedge	1	
<i>Daemonorops draco</i> Dragon's Blood	1	
<i>Duboisia myoporoides</i> Corkwood Tree; Pituri	1	
<i>Duchesnea indica</i> Mock Strawberry; False Strawberry; Indian Strawberry	1	
<i>Elaeagnus pungens</i> Thorny Silver Berry	2	
<i>Elaeagnus angustifolia</i> Russian Olive; Silver Berry	1	
<i>Eleutherococcus senticosus</i> Wu jia; Siberian Ginseng; Ci wu jia (Pinyin); Spiny Ginseng; Eleuthero Ginseng	1	
<i>Eriobotrya japonica</i> Loquat	2	
<i>Erythroxylum coca</i> Coca	1	
<i>Eucalyptus wandoo</i>	1	
<i>Eucalyptus grandis</i> Flooded Gum; Gum; Rose Gum	1	
<i>Eucalyptus globulus</i> Tasmanian Bluegum; Blue Gum; Eucalypt	2	
<i>Eucalyptus citriodora</i> Spotted Gum; Citron-Scented Gum; Lemon-Scented Gum; Lemon Eucalyptus	1	
<i>Fagopyrum esculentum</i> Buckwheat	1	
<i>Fallopia japonica</i> Japanese Knotweed; Mexican Bamboo; Giant Knotweed; Hu-Zhang	1	
<i>Ficus carica</i> Feigenbaum (Ger.); Higo (Sp.); Echte Feige (Ger.); Fico (Ital.); Figuier Commun (Fr.); Fig; Figueira (Port.); Higuera Comun (Sp.)	1	
<i>Forsythia suspensa</i> Lien-Chiao; Lian-Jiao	2	
<i>Gaultheria procumbens</i> Teaberry; Creeping Wintergreen; Wintergreen; Mountain Tea; Checkerberry; Wintergrun (Ger.)	1	
<i>Gaultheria fragrantissima</i> Indian Wintergreen	1	
<i>Ginkgo biloba</i> Ginkgo; Maidenhair Tree	1	
<i>Glechoma hederacea</i> Alehoof	2	1052.0
<i>Harpagophytum procumbens</i> Devil's Claw; Grapple Plant	2	
<i>Hedera helix</i> Ivy	1	
<i>Helianthus annuus</i> Girasol; Sunflower	1	
<i>Helichrysum angustifolium</i> Everlasting; Immortelle	1	
<i>Hibiscus sabdariffa</i> Red Sorrel; Acedera de Guinea (Sp.); Roselle; Rosella (Ger.); Malventee (Ger.); Indian Sorrel; Jamaica Sorrel; Rosa de Jamaica (Sp.); Sereni (Sp.); Sorrel; Kharkadi	1	
<i>Holarrhena pubescens</i> Kurchi; Zhi Xie Mu; Tellicherry Bark; Conessi	1	
<i>Humulus lupulus</i> Hops	3	
<i>Hypericum perforatum</i> Goatweed; Common St. Johnswort; Hypericum; Klamath Weed; St. John's-wort	2	
<i>Hyptis capitata</i> Knobweed	1	
<i>Hyssopus officinalis</i> Hyssop	2	9800.0
<i>Ilex paraguariensis</i> South American Holly; Paraguay Tea; Mate	1	
<i>Illicium verum anis estrellado</i> (Sp.); anis de China (Sp.); Sternanis (Ger.); Chinesischer Sternanis (Ger.); Star Anise; Chinese Star Anise	1	
<i>Krameria triandra</i> Rhatany	2	
<i>Laurus nobilis</i> Grecian Laurel; Bay; Sweet Bay; Bayleaf; Laurel; Bay Laurel	1	
<i>Lavandula latifolia</i> Broad-Leaved Lavender; Spike Lavender; Aspic	2	47800.0
<i>Lavandula angustifolia</i> English Lavender	1	14000.0
<i>Leonurus cardiaca</i> Motherwort	2	
<i>Ligustrum lucidum</i> Glossy Privet; Privet; Ligustri Fructus; White Waxtree; Chinese Privet	2	

Plant	# Chemicals	Total PPM
<i>Ligustrum japonicum</i> Japanese Privet; Ligustri Fructus	2	
<i>Limonia acidissima</i> Wood-Apple; Elephant Apple; Manzana De Elefante	1	
<i>Liquidambar styraciflua</i> Sweetgum; American Styrax	1	
<i>Liquidambar orientalis</i> Oriental Storax; Oriental Styrax	1	
<i>Luffa aegyptiaca</i> Smooth Loofah; Vegetable Sponge; Luffa	1	
<i>Lycopus europeus</i> European Bugle	1	
<i>Maclura pomifera</i> Osage-Orange; Hedge Apple	1	
<i>Malus domestica</i> Apple	2	
<i>Marrubium vulgare</i> White Horehound; Horehound	1	2400.0
<i>Matricaria recutita</i> Wild Camomile; German Camomile; Annual Camomile	1	
<i>Melaleuca leucadendra</i> Cajeput	2	
<i>Melilotus officinalis</i> Yellow Sweetclover	1	
<i>Melissa officinalis</i> Melissa; Balm; Bee Balm; Lemonbalm	2	
<i>Mentha x rotundifolia</i> Applemint	2	
<i>Mentha spicata</i> Spearmint; Hortela da Folha Miuda	2	
<i>Monarda didyma</i> Oswego Tea; Beebalm	1	
<i>Morinda citrifolia</i> Indian Mulberry; Noni	1	
<i>Morus alba</i> Sang-Pai-Pi; White Mulberry	1	
<i>Myristica fragrans</i> Mace; nuez moscada (Sp.); Muskatnussbaum (Ger.); Nutmeg; nogal moscado (Sp.)	1	
<i>Myroxylon balsamum</i> Tolu Balsam; Peru Balsam	1	
<i>Nepeta cataria</i> Catnip	1	
<i>Nerium oleander</i> Oleander	2	86000.0
<i>Ocimum tenuiflorum</i> Anise-Scented Basil	2	
<i>Ocimum suave</i> Kenyan Tree Basil	1	
<i>Ocimum canum</i> Hoary Basil	1	
<i>Ocimum basilicum</i> Basil; Sweet Basil; Cuban Basil	2	7896.0
<i>Olea europaea</i> Olive	1	
<i>Origanum vulgare</i> Wild Oregano; Wild Marjoram; Pot Marjoram; European Oregano; Oregano; Common Turkish Oregano	2	6200.0
<i>Origanum majorana</i> Marjoram; Sweet Marjoram	2	13600.0
<i>Panax quinquefolius</i> Ginseng; American Ginseng	1	
<i>Panax japonicus</i> Japanese Ginseng	1	
<i>Panax ginseng</i> Korean Ginseng; Oriental Ginseng; Ginseng; Chinese Ginseng	1	
<i>Persea americana</i> Avocado	1	
<i>Phoradendron juniperinum</i>	1	
<i>Phytolacca americana</i> Pokeweed	1	
<i>Pimenta dioica</i> Jamaica-Pepper; Clover-Pepper; Allspice; Pimento; Pimenta	1	
<i>Pistacia lentiscus</i> Mastixbaum (Ger.); Chios Mastictree; Lentisco (Sp.); Mastic; Mastictree	1	
<i>Plantago major</i> Common Plantain	2	
<i>Plantago asiatica</i> Asian Plantain	1	
<i>Plectranthus amboinicus</i> Amboini Coleus; Spanish Thyme; Mexican Mint; Soup Mint; French Thyme; Cuban Oregano; Indian Borage; Country Borage	2	
<i>Polygonum multiflorum</i> Fleeceflower; Chinese Knotweed; He Shou Wu; Chinese Cornbind; Fo Ti	1	

Plant	# Chemicals	Total PPM
<i>Prosopis glandulosa</i> Honey Mesquite; Mesquite	2	
<i>Prunella vulgaris</i> Self-Heal; Heal-All	2	
<i>Prunus serotina</i> Black Cherry; Wild Cherry	1	
<i>Prunus persica</i> Peach	1	
<i>Prunus laurocerasus</i> Cherry Laurel	1	20000.0
<i>Prunus cerasus</i> Sour Cherry	2	
<i>Prunus armeniaca</i> Apricot	1	
<i>Prunus africana</i> Bitter Almond; Red Stinkwood	2	
<i>Psidium guajava</i> Guava	2	
<i>Punica granatum</i> Granatapfelstrauch (Ger.); Granatapfelbaum (Ger.); Pomegranate; Romanzeiro (Port.); Granado (Sp.); Zakuro (Jap.); Mangrano (Sp.); Grenadier (Fr.)	2	
<i>Pyrus communis</i> Pear	1	
<i>Quisqualis indica</i> Rangoon Creeper	1	
<i>Rhododendron ponticum</i> Pontic Alpenrose	1	
<i>Rhododendron ferrugineum</i> Rusty-Leaved Alpenrose	1	
<i>Rhododendron dauricum</i> Chinese Alpenrose	1	
<i>Rosa woodsii</i> Woods' Rose	1	
<i>Rosmarinus officinalis</i> Rosemary	2	103000.0
<i>Rubus fruticosus</i> Blackberry	1	
<i>Salvia triloba</i> Greek Sage	2	159400.0
<i>Salvia sclarea</i> Clary Sage	2	
<i>Salvia officinalis</i> Sage	2	5372.0
<i>Sambucus nigra</i> European Elderberry; European Elder; Black Elder; Elder; European Alder	2	
<i>Sambucus canadensis</i> American Elderberry; American Elder; Elderberry; Sweet Elder	1	
<i>Sanguisorba officinalis</i> Greater Burnet	1	
<i>Satureja montana</i> Winter Savory; Savory	2	32000.0
<i>Satureja hortensis</i> Summer Savory	2	6600.0
<i>Sorbus aucubaria</i> Rowan Berry	1	
<i>Syringa vulgaris</i> Lilac	1	
<i>Syzygium claviflorum</i>	2	
<i>Syzygium aromaticum</i> Clove; Clovetree	1	40000.0
<i>Terminalia pallida</i>	1	
<i>Terminalia catappa</i> Malabar Almond; Indian Almond; Tropical Almond	1	
<i>Terminalia arjuna</i> Arjuna; Arjun	1	
<i>Ternstroemia gymnanthera</i>	1	
<i>Teucrium scorodonia</i> Germander; Wood Germander	1	
<i>Teucrium scordium</i> Water Germander	1	
<i>Teucrium polium</i> Golden Germander	1	
<i>Teucrium chamaedrys</i> Wall Germander	1	
<i>Theobroma cacao</i> Cacao	1	
<i>Thevetia peruviana</i> Cabalonga (Sp.); Adelfa Amarilla (Sp.); Loandro-Amarelo (Port.); Peruvian Yellow Oleander; Thevetie (Ger.); Yellow Oleander; Chirca (Sp.); Luckynut; Oleandre Jaune (Fr.)	1	
<i>Thymus vulgaris</i> Thyme; Common Thyme; Garden Thyme	2	50200.0

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<i>Thymus serpyllum</i> Creeping Thyme	2	27800.0
<i>Uncaria tomentosa</i> Una de Gato; Garabato Amarillo; Cat's Claw	2	
<i>Urtica dioica</i> Stinging Nettle; European Nettle	2	
<i>Vaccinium vitis-idaea</i> Lingen; Lingonberry; Cowberry	1	15000.0
<i>Vaccinium myrtillus</i> Dwarf Bilberry; Bilberry; Whortleberry	2	5000.0
<i>Vaccinium macrocarpon</i> Large Cranberry; American Cranberry; Cranberry	3	
<i>Vaccinium corymbosum</i> Blueberry	3	
<i>Verbascum thapsus</i> Flannelleaf; Flannelplant; Velvetplant; Mullein; Great Mullein	1	
<i>Verbena officinalis</i> Vervain	1	
<i>Viburnum prunifolium</i> Black Haw	2	
<i>Viburnum opulus</i> Snowballbush; Crampbark; European Cranberry Bush; Guelder Rose	1	
<i>Vinca minor</i> Periwinkle; Running-Myrtle	1	100800.0
<i>Viscum album</i> European Mistletoe	1	
<i>Vitis vinifera</i> European Grape; Grape; Parra (Sp.); Grapevine; Weinrebe (Ger.); Vigne Vinifere (Fr.); Wine Grape; Vid (Sp.)	4	180800.0
<i>Zea mays</i> Corn	1	
<i>Zizyphus jujuba</i> Jujube; Da-Zao; Ta-Tsao	2	