

A Bronchorelaxant

*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 esculentus</i> Okra	1	
<i>Acacia farnesiana</i> Sweet Acacia; Cassie; Opopanax; Huisache; Popinac	1	
<i>Achillea millefolium</i> Milfoil; Yarrow	1	
<i>Acinos suaveolens</i>	1	
<i>Aconitum napellus</i> Soldier's Cap; European Aconite; Monkshood; Helmet Flower; Queen's Fettle; Aconite; Bear's-Foot; Garden Wolfsbane; Blue Rocket; Friar's Cap; Garden Monkshood; Turk's Cap	1	
<i>Acorus calamus</i> Myrtle Flag; Flagroot; Sweet Calamus; Sweetroot; Calamus; Sweetflag	1	
<i>Aegle marmelos</i> Bael fruit; Bael de India	1	
<i>Aesculus hippocastanum</i> Horse Chestnut	2	
<i>Agastache rugosa</i>	1	
<i>Ailanthus altissima</i> Stinktree; Tree Of Heaven	1	
<i>Allium sativum</i> var. <i>sativum</i> Garlic	2	
<i>Allium ampeloprasum</i> Kurrat; Elephant Garlic	1	
<i>Aloysia citrodora</i> Lemon Verbena	2	4550.0
<i>Alpinia officinarum</i> Lesser Galangal; Chinese Ginger	1	
<i>Alpinia galanga</i> Siamese Ginger; Languas; Greater Galangal	1	
<i>Althaea officinalis</i> Marshmallow; White Mallow	2	
<i>Ammi visnaga</i> Visnaga	1	20000.0
<i>Ammi majus</i> Bishop's Weed	1	
<i>Ananas comosus</i> Pineapple	1	
<i>Anethum graveolens</i> Garden Dill; Dill	2	
<i>Angelica sinensis</i> Dong Quai; Chinese Angelica; Dang Qui; Dang Quai; Dong Gui; Dang Gui	1	
<i>Angelica dahurica</i> Bai Zhi	1	
<i>Angelica archangelica</i> Wild Parsnip; Garden Angelica; Angelica	2	
<i>Anisodus tanguticus</i> Zang Qie	1	
<i>Anisomeles malabarica</i> Malabar Catmint	1	
<i>Apium graveolens</i> Celery	3	
<i>Artemisia vulgaris</i> Mugwort	2	
<i>Artemisia dracunculus</i> Tarragon	2	
<i>Artemisia capillaris</i> Capillary Wormwood	1	
<i>Artemisia annua</i> Annual Mugwort (GRIN); Qinghao; Annual Wormwood (GRIN); Sweet Annie; Sweet Wormwood (GRIN)	3	
<i>Artemisia abrotanum</i> Southernwood	2	
<i>Atropa bella-donna</i> Belladonna	2	17424.0
<i>Avena sativa</i> Oats	3	20.0
<i>Azadirachta indica</i> Neem	1	
<i>Ballota nigra</i> Black Horehound	1	
<i>Baptisia tinctoria</i> Wild Indigo	1	
<i>Brunfelsia uniflorus</i> Manaca	1	
<i>Callicarpa americana</i> French Mulberry; Beauty Berry; American Beauty Berry	1	

Plant	# Chemicals	Total PPM
<i>Camellia sinensis</i> Tea	1	
<i>Capsicum frutescens</i> Chili; Hot Pepper; Red Chili; Cayenne; Tabasco; Spur Pepper	1	
<i>Capsicum annuum</i> Green Pepper; Cone Pepper; Sweet Pepper; Cherry Pepper; Paprika; Bell Pepper	2	
<i>Carica papaya</i> Papaya	1	
<i>Carum carvi</i> Caraway; Kummel (Ger.); Comino (Sp.); Comino de prado (Sp.); Carum	2	
<i>Casimiroa edulis</i> Matasano; White sapote	1	
<i>Catha edulis</i> Khat	1	
<i>Centaurea cyanus</i> Cornflower; Bachelor's Button	1	
<i>Centella asiatica</i> Pennywort; Gotu Kola	1	
<i>Chamaemelum nobile</i> Roman Camomile; Perennial Camomile; Garden Camomile	1	
<i>Chenopodium album</i> Lambsquarter	1	
<i>Chrysanthemum x morifolium</i> Chrysanthemum; Mum; Ju Hua (Pinyin); Florist's Chrysanthemum	1	
<i>Cichorium intybus</i> Chicory; Witloof; Succory	1	
<i>Cinnamomum verum</i> Ceylon Cinnamon; Cinnamon	1	
<i>Cinnamomum aromaticum</i> Chinesischer Zimtbaum (Ger.); Kashia-Keihi (Jap.); Cassia Lignea; Cannelier de Chine (Fr.); Saigon Cinnamon; Canela de la China (Sp.); China Junk Cassia; Cassia; Canelle de Cochinchine (Fr.); Zimtcassie (Ger.); Cannelier Casse (Fr.); Cassia Bark; Chinazimt (Ger.); Chinese Cassia; Canelero chino (Sp.); Chinese Cinnamon	1	
<i>Citrullus colocynthis</i> Colocynth	1	
<i>Citrus sinensis</i> Orange	2	
<i>Citrus reticulata</i> Mandarin; Tangerine	1	
<i>Citrus paradisi</i> Grapefruit	2	
<i>Citrus medica</i> Citron	1	
<i>Citrus limon</i> Lemon	3	
<i>Citrus aurantium</i> Petitgrain; Bitter Orange	2	
<i>Citrus aurantiifolia</i> Lime	2	
<i>Cnicus benedictus</i> Blessed Thistle	1	
<i>Coffea arabica</i> Coffee	1	
<i>Conyza canadensis</i> Horseweed; Butterweed; Hogweed	1	
<i>Coriandrum sativum</i> Coriander; Cilantro; Chinese Parsley	2	
<i>Corydalis</i> spp Fumewort	1	
<i>Crocus sativus</i> Saffron	1	
<i>Cuminum cyminum</i> Cumin	1	
<i>Curcuma longa</i> Indian Saffron; Turmeric	1	
<i>Cymbopogon winterianus</i> Java Citronella; Mahapengiri	1	28.0
<i>Cymbopogon flexuosus</i> East Indian Lemongrass	1	8500.0
<i>Cymbopogon citratus</i> Lemongrass; West Indian Lemongrass	2	28980.0
<i>Cynara cardunculus</i> Artichoke	1	
<i>Datura stramonium</i> Jimsonweed	3	980.0
<i>Datura metel</i> Hindu Datura	1	7120.0
<i>Datura innoxia</i> Thorn Apple	2	19230.0
<i>Datura candida</i> Borrachero; Floripondio	1	
<i>Daucus carota</i> Carrot	2	400.0
<i>Duboisia myoporoides</i> Corkwood Tree; Pituri	3	

Plant	# Chemicals	Total PPM
<i>Elettaria cardamomum</i> Cardamom	1	
<i>Eleutherococcus senticosus</i> Eleuthero Ginseng; Ci wu jia (Pinyin); Siberian Ginseng; Wu jia; Spiny Ginseng	1	
<i>Elsholtzia nipponica</i> Hsiang Ju	1	
<i>Ephedra sinica</i> Ma Huang; Chinese Ephedra	1	45000.0
<i>Ephedra nevadensis</i> Brigham Tea; Mormon Tea	1	
<i>Ephedra gerardiana</i> Pakistani Ephedra	1	14000.0
<i>Eucalyptus tereticornis</i>	1	
<i>Eucalyptus sideroxylon</i>	1	
<i>Eucalyptus siderophloia</i>	1	
<i>Eucalyptus saligna</i>	1	
<i>Eucalyptus punctata</i>	1	
<i>Eucalyptus populnea</i>	1	
<i>Eucalyptus polyanthemos</i>	1	
<i>Eucalyptus paniculata</i>	1	
<i>Eucalyptus oviformis</i>	1	
<i>Eucalyptus occidentalis</i>	1	
<i>Eucalyptus moluccana</i>	1	
<i>Eucalyptus melliodora</i>	1	
<i>Eucalyptus maideni</i>	1	
<i>Eucalyptus maculata</i> Gum	1	
<i>Eucalyptus globulus</i> Blue Gum; Eucalypt; Tasmanian Bluegum	1	
<i>Eucalyptus diversicolor</i>	1	
<i>Eucalyptus dealbata</i>	1	
<i>Eucalyptus cladocalyx</i>	1	
<i>Eucalyptus citriodora</i> Citron-Scented Gum; Lemon-Scented Gum; Spotted Gum; Lemon Eucalyptus	2	
<i>Eucalyptus camaldulensis</i>	1	
<i>Eucalyptus brassiana</i> Brasses' Eucalyptus	1	
<i>Eucalyptus botryoides</i>	1	
<i>Eucalyptus bosistoana</i>	1	
<i>Eucalyptus blakelyi</i>	1	
<i>Eucalyptus astringens</i>	1	
<i>Eucalyptus albens</i>	1	
<i>Ficus carica</i> Fig; Figueira (Port.); Echte Feige (Ger.); Figuier Commun (Fr.); Higuera Comun (Sp.); Feigenbaum (Ger.); Higo (Sp.); Fico (Ital.)	2	
<i>Foeniculum vulgare</i> Fennel	2	
<i>Fragaria</i> spp Strawberry	2	
<i>Gardenia jasminoides</i> Jasmin; Gardenia; Zhi Zi; Cape Jasmine; Shan-Chih-Tzu; Shan-Zhi-Zi	1	
<i>Gelsemium sempervirens</i> Yellow Jessamine	1	
<i>Glehnia littoralis</i> Bei Sha Shen	1	
<i>Glycyrrhiza uralensis</i> Gan-Cao; Kan-Tsao; Chinese Licorice	1	
<i>Glycyrrhiza glabra</i> Licorice; Commom Licorice; Licorice-Root; Smooth Licorice	1	
<i>Hedera helix</i> Ivy	1	

Plant	# Chemicals	Total PPM
<i>Helianthus annuus</i> Sunflower; Girasol	3	
<i>Hesperis matronalis</i> Sweet Rocket; Dame's Rocket; Dame's-Violet; Damask-Violet	1	
<i>Hibiscus sabdariffa</i> Sorrel; Red Sorrel; Malventee (Ger.); Jamaica Sorrel; Acedera de Guinea (Sp.); Kharkadi; Roselle; Rosella (Ger.); Sereni (Sp.); Rosa de Jamaica (Sp.); Indian Sorrel	2	
<i>Hordeum vulgare</i> Barley; Barleygrass	2	126.0
<i>Humulus lupulus</i> Hops	2	
<i>Hyoscyamus niger</i> Henbane	1	
<i>Hypericum perforatum</i> Klamath Weed; St. John's-wort; Common St. Johnswort; Goatweed; Hypericum	2	
<i>Hyssopus officinalis</i> Hyssop	1	
<i>Illicium verum</i> anis de China (Sp.); Chinese Star Anise; anis estrellado (Sp.); Star Anise; Sternanis (Ger.); Chinesischer Sternanis (Ger.)	1	
<i>Inula helenium</i> Elecampane	1	
<i>Ipomoea purga</i> Jalap	1	
<i>Ipomoea batatas</i> Sweet Potato	1	
<i>Juniperus communis</i> Common Juniper; Juniper	1	
<i>Lactuca virosa</i> Bitter Lettuce	1	
<i>Lactuca scariola</i> Prickly Lettuce	1	
<i>Lactuca sativa</i> Lettuce	1	
<i>Lantana camara</i> Wild Sage; Lantana	2	
<i>Laurus nobilis</i> Bay; Bayleaf; Grecian Laurel; Sweet Bay; Bay Laurel; Laurel	2	
<i>Lavandula angustifolia</i> English Lavender	1	
<i>Lawsonia inermis</i> Mignonette; Henna; Mignonette Tree; Jamaica-Mignonette	1	
<i>Levisticum officinale</i> Lovage	1	
<i>Lippia alba</i> White Lippia	1	
<i>Lophophora williamsii</i> Peyote	1	
<i>Lycium chinense</i> Daun Koki (Indones.); Wolfberry; Kaukichai (Malays.); Chinese Wolfberry; Chinese Matrimony Vine; Gou Qi (Chin.); Lyciet de Chine (Fr.); Chinese Boxthorn; Chinesischer Bocksborn (Ger.); Kuko (Jap.); Spina Santa Cinese (Ital.)	1	
<i>Lycium barbarum</i> Ning Xia Gou Qi (Chin.); Duke of Argyll's Eta Tree; Common Matrimony Vine; Barbary Matrimony Vine; Matrimony Vine	1	
<i>Lycopersicon esculentum</i> Tomato	1	
<i>Magnolia fargesii</i> Xin-Yi; Hsin-I	1	
<i>Mandragora officinarum</i> Mandrake	2	7000.0
<i>Medicago sativa</i> Alfalfa; Lucerne	1	
<i>Melaleuca viridiflora</i> Broad-Leaf Tea-Tree; Niaouli	1	
<i>Melaleuca alternifolia</i> Teatree	1	
<i>Melia azedarach</i> Chinaberry	1	
<i>Melissa officinalis</i> Lemonbalm; Bee Balm; Balm; Melissa	2	
<i>Mentha x rotundifolia</i> Applemint	1	300.0
<i>Mentha x piperita</i> Peppermint	1	
<i>Mentha spicata</i> Spearmint; Hortela da Folha Miuda	1	
<i>Mentha pulegium</i> European Pennyroyal	1	
<i>Mentha longifolia</i> Biblical Mint	1	
<i>Mentha arvensis</i> var. <i>piperascens</i> Field Mint; Cornmint; Japanese Mint	1	
<i>Mentha aquatica</i> Water Mint	1	

Plant	# Chemicals	Total PPM
<i>Menyanthes trifoliata</i> Water Trefoil; Bogbean; Marsh Trefoil; Bog Myrtle; Buckbean; Marsh Clover	1	
<i>Monarda citriodora</i> Lemon Mint	1	
<i>Morinda citrifolia</i> Indian Mulberry; Noni	1	
<i>Morus alba</i> Sang-Pai-Pi; White Mulberry	2	
<i>Murraya koenigii</i> Curry Leaf; Indian Curry Tree; Curry Leaf Tree	2	
<i>Myrica cerifera</i> Southern Bayberry; Bayberry; Wax Myrtle; Candle-Berry	1	
<i>Myristica fragrans</i> Nutmeg; nogal moscado (Sp.); nuez moscada (Sp.); Muskatnussbaum (Ger.); Mace	1	
<i>Myrtus communis</i> Arrayan (Sp.); Myrtle; Myrte (Ger.); Mirto (Sp.)	1	
<i>Nepeta cataria</i> Catnip	1	
<i>Nicotiana tabacum</i> Tobacco	2	
<i>Ocimum tenuiflorum</i> Anise-Scented Basil	1	
<i>Ocimum gratissimum</i> Shrubby Basil; Agbo	1	
<i>Ocimum canum</i> Hoary Basil	1	
<i>Ocimum basilicum</i> Basil; Cuban Basil; Sweet Basil	2	14000.0
<i>Origanum vulgare</i> Wild Marjoram; Pot Marjoram; Common Turkish Oregano; Oregano; European Oregano; Wild Oregano	1	
<i>Origanum sipyleum</i> Bayircayi; Guveyoto	1	
<i>Origanum majorana</i> Marjoram; Sweet Marjoram	2	
<i>Panax ginseng</i> Korean Ginseng; Oriental Ginseng; Chinese Ginseng; Ginseng	1	
<i>Pancretium maritimum</i> Sea Daffodil	1	
<i>Passiflora incarnata</i> Manzana de Mayo; Mayapple; Passionflower	1	
<i>Pelargonium roseum</i> Scented Geranium	1	
<i>Perilla frutescens</i> Perilla	2	
<i>Petroselinum crispum</i> Parsley	1	
<i>Peumus boldus</i> Boldo	1	
<i>Pimenta racemosa</i> Bayrum Tree; West Indian Bay	2	
<i>Pimenta dioica</i> Clover-Pepper; Jamaica-Pepper; Pimento; Allspice; Pimenta	1	
<i>Pimpinella anisum</i> Sweet Cumin; Anise	2	
<i>Pinus sylvestris</i> Scotch Pine	1	
<i>Piper nigrum</i> White Pepper; Pepper; Black Pepper	2	
<i>Piper cubeba</i> Cubeb; Cubeb Pepper	1	
<i>Piper auritum</i> Cordoncillo; Hierba Santa; Hoja Santa	1	
<i>Pistacia lentiscus</i> Mastictree; Lentisco (Sp.); Mastic; Chios Mastictree; Mastixbaum (Ger.)	1	
<i>Polygonum multiflorum</i> He Shou Wu; Chinese Cornbind; Fleeceflower; Fo Ti; Chinese Knotweed	1	
<i>Prunella vulgaris</i> Self-Heal; Heal-All	2	
<i>Prunus serotina</i> Black Cherry; Wild Cherry	1	
<i>Prunus armeniaca</i> Apricot	1	
<i>Psidium guajava</i> Guava	1	
<i>Psoralea corylifolia</i> Black Dot; Babchi; Malaya Tea	1	
<i>Quercus rubra</i> Northern Red Oak	1	
<i>Ravensara aromatica</i> Ravensara	1	
<i>Rhododendron dauricum</i> Chinese Alpenrose	1	
<i>Ribes nigrum</i> Black Currant	1	

Plant	# Chemicals	Total PPM
<i>Rosa gallica</i> French Rose	1	
<i>Rosmarinus officinalis</i> Rosemary	1	
<i>Ruta graveolens</i> Rue	1	
<i>Salvia sclarea</i> Clary Sage	1	1840.0
<i>Salvia officinalis</i> Sage	2	
<i>Sassafras albidum</i> Sassafras	2	
<i>Satureja obovata</i> Savory; Iberian Savory	1	
<i>Satureja montana</i> Savory; Winter Savory	1	
<i>Satureja hortensis</i> Summer Savory	1	
<i>Scopolia carniolica</i> Scopolia	2	
<i>Selenicereus grandiflorus</i> Queen-of-the-Night; Night-Blooming Cereus	1	
<i>Sida rhombifolia</i> Teaplant; Broomweed	1	
<i>Simaba multiflora</i> Cajurana	1	
<i>Skimmia arborescens</i> Skimmia	3	
<i>Solanum tuberosum</i> Potato	2	196.0
<i>Solanum melongena</i> Eggplant; Aubergine	1	
<i>Sonchus oleraceus</i> Sow Thistle; Cerraja	1	
<i>Stachytarpheta cayennensis</i> Verbena	1	
<i>Sterculia urens</i> Karaya	1	
<i>Stevia rebaudiana</i> Ca-A-E; Sweet Leaf of Paraguay; Stevia	1	
<i>Syzygium aromaticum</i> Clovetree; Clove	1	
<i>Tagetes minuta</i> Stinking-Roger; Dwarf Marigold; Wild Marigold; Aztec Marigold; Mexican Marigold; Muster John Henry	1	
<i>Tagetes lucida</i> Sweet-Mace; Sweet-Scent Mexican Marigold; Sweet-Scent Marigold; Anise Marigold	1	
<i>Tamarindus indica</i> Tamarind; Indian Tamarind; Kilytree	1	
<i>Taraxacum officinale</i> Dandelion	1	
<i>Taxus baccata</i> Common Yew	1	
<i>Theobroma cacao</i> Cacao	1	
<i>Thymus vulgaris</i> Garden Thyme; Common Thyme; Thyme	2	
<i>Thymus serpyllum</i> Creeping Thyme	1	
<i>Thymus funkii</i> Funk's Thyme	1	
<i>Trifolium pratense</i> Purple Clover; Peavine Clover; Red Clover; Cowgrass	1	
<i>Urtica dioica</i> European Nettle; Stinging Nettle	2	
<i>Vaccinium myrtillus</i> Whortleberry; Bilberry; Dwarf Bilberry	1	
<i>Vaccinium corymbosum</i> Blueberry	1	
<i>Verbena officinalis</i> Vervain	1	
<i>Vetiveria zizanioides</i> Cuscus Grass; Vetiver; Cus-Cus	1	
<i>Viburnum prunifolium</i> Black Haw	2	
<i>Viburnum opulus</i> Guelder Rose; Snowballbush; European Cranberry Bush; Crampbark	1	
<i>Viola odorata</i> Sweet Violet; Common Violet	1	
<i>Vitex agnus-castus</i> Chaste-Tree	1	
<i>Vitis vinifera</i> Weinrebe (Ger.); Wine Grape; Grape; Parra (Sp.); Vigne Vinifere (Fr.); European Grape; Vid (Sp.); Grapevine	1	
<i>Withania somnifera</i> Ashwagandha	1	

Plant	# Chemicals	Total PPM
Zanthoxylum alatum Indian Prickly Ash; Wartara Oil Tree	1	
Zea mays Corn	2	
Zingiber officinale Ginger	2	27000.0
Zizyphus jujuba Jujube; Da-Zao; Ta-Tsao	1	