

A Antigenotoxic

*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
Acacia nilotica Babul	1	
Acacia farnesiana Sweet Acacia; Opopanax; Huisache; Popinac; Cassie	1	
Achillea millefolium Yarrow; Milfoil	2	
Aconitum napellus Helmet Flower; Monkshood; Aconite; Blue Rocket; Friar's Cap; Garden Monkshood; Queen's Fettle; Soldier's Cap; European Aconite; Turk's Cap; Bear's-Foot; Garden Wolfsbane	1	
Acorus calamus Flagroot; Sweet Calamus; Sweetroot; Sweetflag; Calamus; Myrtle Flag	2	384.0
Adonis vernalis Spring Adonis	1	
Agastache rugosa	2	
Agastache foeniculum Giant Hyssop	1	
Ageratum conyzoides Mexican ageratum	1	
Agrimonia eupatoria Agrimony; Sticklewort	1	
Allium sativum var. sativum Garlic	1	
Allium ampeloprasum Kurrat; Elephant Garlic	1	
Aloysia citrodora Lemon Verbena	1	
Alpinia officinarum Chinese Ginger; Lesser Galangal	1	800.0
Alpinia galanga Greater Galangal; Siamese Ginger; Languas	1	24000.0
Althaea officinalis White Mallow; Marshmallow	1	
Anethum graveolens Dill; Garden Dill	4	1078.0
Angelica archangelica Wild Parsnip; Angelica; Garden Angelica	2	
Apium graveolens Celery	3	2.0
Arachis hypogaea Groundnut; Peanut	1	24.0
Arctium lappa Gobo; Burdock; Great Burdock	1	
Arnica montana Leopard's-Bane; Mountain Tobacco	1	
Artemisia dracunculus Tarragon	4	20000.0
Artemisia absinthium Wormwood	1	
Artemisia abrotanum Southernwood	1	
Astragalus membranaceus Huang Qi; Huang-Chi	1	
Ballota nigra Black Horehound	1	
Berberis vulgaris Barberry	1	
Beta vulgaris Beet; Beetroot; Sugar Beet; Garden Beet	1	
Boehmeria nivea Ramie	1	
Boronia megastigma Scented Boronia	1	
Brassica oleracea var. italica Calabrese; Purple Cauliflower; Asparagus Broccoli; Cape Broccoli; Heading Broccoli; Broccoli; Winter Broccoli; Sprouting Broccoli	1	
Brassica oleracea var. capitata l. Cabbage; Red Cabbage; White Cabbage	2	
Brassica oleracea var. botrytis l. Cauliflower	1	
Brassica nigra Black Mustard	1	
Calamintha nepeta Turkish Calamint	1	
Calendula officinalis Pot-Marigold; Calendula	1	
Camellia sinensis Tea	2	

Plant	# Chemicals	Total PPM
<i>Cananga odorata</i> Ylang-Ylang; Cananga	1	
<i>Canarium indicum</i> Manila Elemi; Java-Olive	1	170000.0
<i>Cannabis sativa</i> Marihuana; Marijuana; Hemp; Indian Hemp	1	
<i>Capsicum frutescens</i> Cayenne; Tabasco; Red Chili; Hot Pepper; Chili; Spur Pepper	1	
<i>Capsicum annuum</i> Cherry Pepper; Paprika; Cone Pepper; Bell Pepper; Green Pepper; Sweet Pepper	2	
<i>Centaurea cyanus</i> Cornflower; Bachelor's Button	1	
<i>Cichorium intybus</i> Witloof; Chicory; Succory	1	
<i>Cinchona pubescens</i> Redbark; Red Peruvian-Bark; Red Cinchona; Quinine	1	
<i>Cinnamomum verum</i> Cinnamon; Ceylon Cinnamon	1	20320.0
<i>Cinnamomum camphora</i> Ho Leaf; Camphor	1	
<i>Cinnamomum aromaticum</i> Zimtcassie (Ger.); Chinesischer Zimtbaum (Ger.); Chinazimt (Ger.); Cannelier Casse (Fr.); Saigon Cinnamon; Canelle de Cochinchine (Fr.); Cassia Lignea; Canelero chino (Sp.); Chinese Cassia; Kashia-Keihi (Jap.); Cassia; Cannelier de Chine (Fr.); China Junk Cassia; Cassia Bark; Canela de la China (Sp.); Chinese Cinnamon	1	
<i>Cistus ladaniferus</i> Gum Cistus; Ambreine; Rockrose; Labdanum	1	2100.0
<i>Citrullus colocynthis</i> Colocynth	2	
<i>Clematis vitalba</i> Traveler's Joy	1	
<i>Coffea arabica</i> Coffee	2	180000.0
<i>Commiphora myrrha</i> Myrrhe (Fr., Ger.); Myrrh; Mirra (Sp. It.); African Myrrh; Somali Myrrh; Herabol Myrrh	1	
<i>Conium maculatum</i> Poison Hemlock; Spotted Parsley; Fool's Parsley; Carrot Fern; Hemlock; Spotted Hemlock	1	
<i>Convallaria majalis</i> Lily-Of-The-Valley	1	
<i>Corchorus olitorius</i> Mulukiya; Jew's Mallow; Nalta Jute	1	
<i>Coriandrum sativum</i> Coriander; Chinese Parsley; Cilantro	2	644.0
<i>Crataegus rhipidophylla</i> Hawthorn	1	
<i>Crataegus pentagyna</i> Hawthorn	1	
<i>Crataegus monogyna</i> English Hawthorn; Hawthorn	1	
<i>Crataegus laevigata</i> Hawthorn; English Hawthorn; Woodland Hawthorn; Whitethorn	1	
<i>Crataegus cuneata</i> Hawthorn	1	
<i>Croton lechleri</i> Sangre de Drago; Sangre de Grado; Sangre de Dragon; Dragons Blood	1	
<i>Croton eluteria</i> Cascarilla	1	
<i>Cucumis sativus</i> Cucumber	1	
<i>Cucurbita pepo</i> Pumpkin	1	
<i>Cuminum cyminum</i> Cumin	1	
<i>Curcuma longa</i> Indian Saffron; Turmeric	1	
<i>Cyamopsis tetragonoloba</i> Guar; Siam-Bean; Cluster-Bean	1	
<i>Cydonia oblonga</i> Quince	1	
<i>Cymbopogon winterianus</i> Mahapengiri; Java Citronella	1	466.0
<i>Cynara cardunculus</i> Artichoke	1	
<i>Datura stramonium</i> Jimsonweed	1	
<i>Daucus carota</i> Carrot	2	14000.0
<i>Dianthus caryophyllus</i> Carnation; Clove Pink; Clavel (Sp.); Nelke (Ger.); Oeillet (Fr.)	1	
<i>Digitalis purpurea</i> Purple Foxglove	1	
<i>Dipsacus fullonum</i>	1	
<i>Drimys winteri</i> Winter's Bark	1	

Plant	# Chemicals	Total PPM
<i>Echinacea</i> spp Coneflower; Echinacea	1	
<i>Echinacea pallida</i> Echinacea; Pale-Flower Echinacea; Pale Purple-Coneflower	1	
<i>Echinacea angustifolia</i> Narrow Leaf Echinacea; Echinacea; Narrow Leaf Purple-Coneflower	1	
<i>Elaeagnus angustifolia</i> Russian Olive; Silver Berry	1	
<i>Eleutherococcus senticosus</i> Ci wu jia (Pinyin); Siberian Ginseng; Wu jia; Eleuthero Ginseng; Spiny Ginseng	1	
<i>Elsholtzia blanda</i> Bantaluki; Bantulsi	1	
<i>Elytrigia repens</i> Quackgrass; Wheatgrass; Twitchgrass; Doggrass; Couchgrass	1	
<i>Ephedra sinica</i> Chinese Ephedra; Ma Huang	1	
<i>Equisetum arvense</i> Horsetail; Field Horsetail	1	
<i>Erythroxylum coca</i> Coca	1	
<i>Eucalyptus globulus</i> Tasmanian Bluegum; Eucalypt; Blue Gum	1	
<i>Eucalyptus citriodora</i> Lemon Eucalyptus; Spotted Gum; Citron-Scented Gum; Lemon-Scented Gum	1	
<i>Eucalyptus brassiana</i> Brasses' Eucalyptus	1	
<i>Eucommia ulmoides</i> Tu Chung; Gutta-Percha Tree; Du Zhong	1	
<i>Fagopyrum esculentum</i> Buckwheat	1	
<i>Ficus carica</i> Fig; Echte Feige (Ger.); Higo (Sp.); Feigenbaum (Ger.); Fico (Ital.); Figueira (Port.); Figuier Commun (Fr.); Higuera Comun (Sp.)	1	
<i>Foeniculum vulgare</i> Fennel	4	157060.0
<i>Fragaria</i> spp Strawberry	1	
<i>Glechoma hederacea</i> Alehoof	1	
<i>Glycine max</i> Soybean	1	
<i>Glycyrrhiza glabra</i> Smooth Licorice; Licorice; Commom Licorice; Licorice-Root	2	4.0
<i>Harpagophytum procumbens</i> Devil's Claw; Grapple Plant	1	
<i>Hedera helix</i> Ivy	1	
<i>Helianthus annuus</i> Girasol; Sunflower	2	56000.0
<i>Helichrysum angustifolium</i> Immortelle; Everlasting	1	
<i>Hibiscus sabdariffa</i> Roselle; Sorrel; Acedera de Guinea (Sp.); Rosella (Ger.); Jamaica Sorrel; Kharkadi; Red Sorrel; Indian Sorrel; Rosa de Jamaica (Sp.); Malventee (Ger.); Sereni (Sp.)	1	
<i>Hordeum vulgare</i> Barley; Barleygrass	1	
<i>Houttuynia cordata</i> Dokudami; Yu Xing Cao; Fishwort	1	
<i>Humulus lupulus</i> Hops	1	
<i>Hyacinthus orientalis</i> Hyacinth	1	9.2
<i>Hydrastis canadensis</i> Goldenseal	1	
<i>Hyoscyamus niger</i> Henbane	1	
<i>Hypericum perforatum</i> Hypericum; Klamath Weed; Common St. Johnswort; St. John's-wort; Goatweed	1	
<i>Hyssopus officinalis</i> Hyssop	1	2134.0
<i>Ilex paraguariensis</i> Mate; South American Holly; Paraguay Tea	1	
<i>Illicium verum</i> anis estrellado (Sp.); Chinesischer Sternanis (Ger.); anis de China (Sp.); Star Anise; Chinese Star Anise; Sternanis (Ger.)	2	135450.0
<i>Ipomoea batatas</i> Sweet Potato	1	
<i>Iris x germanica</i> Orris	1	
<i>Jasminum officinale</i> Jasmine; Poet's Jessamine	1	20.0
<i>Juglans regia</i> English Walnut	2	

Plant	# Chemicals	Total PPM
<i>Juniperus communis</i> Common Juniper; Juniper	1	
<i>Lantana camara</i> Wild Sage; Lantana	1	
<i>Laurus nobilis</i> Sweet Bay; Bayleaf; Bay Laurel; Grecian Laurel; Laurel; Bay	1	2670.0
<i>Lavandula x intermedia</i> Dutch Lavender; Lavandin	1	
<i>Lavandula latifolia</i> Spike Lavender; Broad-Leaved Lavender; Aspic	1	18.0
<i>Levisticum officinale</i> Lovage	2	
<i>Ligustrum japonicum</i> Ligustri Fructus; Japanese Privet	1	
<i>Linum usitatissimum</i> Flax; Linseed	1	
<i>Lonicera japonica</i> Japanese Honeysuckle	2	
<i>Lycopersicon esculentum</i> Tomato	2	36.0
<i>Lycopus virginicus</i> Bugle	1	
<i>Lycopus europeus</i> European Bugle	1	
<i>Lythrum salicaria</i> Purple Loosestrife	1	
<i>Magnolia kobus</i> Xin-Yi; Hsin-I	1	
<i>Mahonia repens</i> Oregon Barberry; Creeping Barberry; Oregon Grape-Holly; Oregon Grape	1	
<i>Malus domestica</i> Apple	1	
<i>Maranta arundinacea</i> Arrowroot; Bermuda Arrowroot	1	
<i>Marrubium vulgare</i> Horehound; White Horehound	1	
<i>Matricaria recutita</i> Wild Camomile; Annual Camomile; German Camomile	1	
<i>Melaleuca viridiflora</i> Niaouli; Broad-Leaf Tea-Tree	1	
<i>Melaleuca bracteata</i> Bracteate Tea-Tree	1	
<i>Melia azedarach</i> Chinaberry	1	
<i>Melissa officinalis</i> Balm; Bee Balm; Lemonbalm; Melissa	2	
<i>Mentha x piperita</i> Peppermint	2	0.02
<i>Mentha spicata</i> Hortela da Folha Miuda; Spearmint	1	
<i>Mentha pulegium</i> European Pennyroyal	1	640.0
<i>Mentha longifolia</i> Biblical Mint	1	
<i>Menyanthes trifoliata</i> Buckbean; Marsh Clover; Bog Myrtle; Water Trefoil; Bogbean; Marsh Trefoil	1	
<i>Micromeria myrtifolia</i> Topukcayi; Dagcayi; Haydarotu	1	
<i>Micromeria fruticosa</i> Zopha; Tea Hyssop; Zuta	1	
<i>Micromeria congesta</i> Kaya Yarpuzu	1	
<i>Morinda citrifolia</i> Indian Mulberry; Noni	1	
<i>Morus alba</i> White Mulberry; Sang-Pai-Pi	2	
<i>Myristica fragrans</i> Mace; Nutmeg; nuez moscada (Sp.); nogal moscado (Sp.); Muskatnussbaum (Ger.)	1	640.0
<i>Myroxylon balsamum</i> Tolu Balsam; Peru Balsam	1	
<i>Myrrhis odorata</i> Sweet Chervil; Myrrh; Cicely; Garden Myrrh; Sweet Cicely	1	
<i>Myrtus communis</i> Arrayan (Sp.); Mirto (Sp.); Myrtle; Myrte (Ger.)	2	
<i>Narcissus tazetta</i> Daffodil	1	
<i>Nicotiana tabacum</i> Tobacco	2	
<i>Ocimum tenuiflorum</i> Anise-Scented Basil	1	
<i>Ocimum suave</i> Kenyan Tree Basil	1	
<i>Ocimum sp</i> Basil	1	

Plant	# Chemicals	Total PPM
<i>Ocimum sanctum</i> Holy Basil; Tulsi	1	
<i>Ocimum kilimandscharicum</i> African Blue Basil; Kenyan Perennial Basil	1	
<i>Ocimum gratissimum</i> Shrubby Basil; Agbo	1	
<i>Ocimum canum</i> Hoary Basil	1	
<i>Ocimum basilicum</i> Basil; Sweet Basil; Cuban Basil	3	17298.0
<i>Oenanthe javanica</i> Javan Water Dropwort	1	
<i>Ononis spinosa</i> Restharrow; Spiny Restharrow; Hauhechel (Ger.)	2	
<i>Origanum vulgare</i> Wild Oregano; European Oregano; Wild Marjoram; Oregano; Common Turkish Oregano; Pot Marjoram	3	
<i>Origanum onites</i> Oregano; Pot Marjoram	1	
<i>Origanum minutiflorum</i> Small-Flowered Oregano	1	
<i>Origanum majorana</i> Marjoram; Sweet Marjoram	3	3238.0
<i>Persea americana</i> Avocado	2	
<i>Petroselinum crispum</i> Parsley	1	
<i>Peucedanum ostruthium</i> Masterwort	1	
<i>Peumus boldus</i> Boldo	1	
<i>Phoenix dactylifera</i> Date Palm	1	
<i>Physalis peruviana</i> Cape Gooseberry; Ground Cherry	1	
<i>Pimenta racemosa</i> West Indian Bay; Bayrum Tree	1	40940.0
<i>Pimenta dioica</i> Pimenta; Clover-Pepper; Pimento; Allspice; Jamaica-Pepper	2	92348.0
<i>Pimpinella anisum</i> Anise; Sweet Cumin	4	108000.0
<i>Pinus sylvestris</i> Scotch Pine	1	
<i>Piper nigrum</i> Black Pepper; Pepper; White Pepper	1	
<i>Piper betel</i> Betel Pepper	1	35700.0
<i>Piper auritum</i> Hierba Santa; Hoja Santa; Cordoncillo	1	
<i>Plantago major</i> Common Plantain	2	
<i>Pluchea carolinensis</i> Santa maria; Pito sico	1	
<i>Pogostemon cablin</i> Patchouli	1	
<i>Polianthes tuberosa</i> Tuberose	1	
<i>Prunus persica</i> Peach	1	
<i>Prunus dulcis</i> Almond	1	
<i>Prunus domestica</i> Plum	1	
<i>Prunus cerasus</i> Sour Cherry	2	
<i>Prunus armeniaca</i> Apricot	1	
<i>Ptychopetalum olacoides</i> Muira Puama	1	
<i>Pueraria montana</i> Kudsu; Kudzu	1	
<i>Punica granatum</i> Romanzeiro (Port.); Granatapfelbaum (Ger.); Mangrano (Sp.); Granado (Sp.); Zakuro (Jap.); Grenadier (Fr.); Pomegranate; Granatapfelstrauch (Ger.)	1	
<i>Pycnanthemum setosum</i> Setose Mountain Mint	1	186.0
<i>Pycnanthemum pycnanthemoides</i> Typical Mountain Mint	1	
<i>Pycnanthemum pilosum</i> Pilose Mountain Mint	1	
<i>Pycnanthemum clinopodioides</i> Clinopod Mountain Mint	1	
<i>Ravensara aromatica</i> Ravensara	1	
<i>Rheum palmatum</i> Chinese Rhubarb	1	

Plant	# Chemicals	Total PPM
Rhododendron ponticum Pontic Alpenrose	1	
Ribes uva-crispa Gooseberry	1	
Ribes nigrum Black Currant	1	
Ricinus communis Castorbean	1	
Rosa gallica French Rose	1	8.0
Rosa damascena Damask Rose	1	30000.0
Rosmarinus officinalis Rosemary	3	
Rubus phoenicolasius Wine Raspberry; Wineberry; Japanese Wineberry	1	
Rubus fruticosus Blackberry	1	
Salvia officinalis Sage	1	
Sambucus simpsonii Simpson's elderberry	1	
Sambucus nigra European Elderberry; Elder; European Elder; Black Elder; European Alder	1	
Santalum album White Sandalwood	1	
Sassafras albidum Sassafras	2	
Satureja montana Savory; Winter Savory	1	
Scopolia carniolica Scopolia	1	
Scutellaria sp	1	
Scutellaria galericulata Marsh Skullcap	1	
Scutellaria baicalensis Baikal Skullcap; Huang Qin; Chinese Skullcap	1	
Senna obtusifolia Sicklepod	1	
Sesamum indicum Benneseed; Ajonjoli (Sp.); Sesame; Beni; Sesamo (Sp.)	1	
Sideritis scardica Balkan Sideritis	1	
Solanum tuberosum Potato	1	4021.0
Solanum torvum Wild Eggplant; Susumba	1	
Solanum melongena Eggplant; Aubergine	1	
Solidago virgaurea Woundwort; European Goldenrod	1	
Sorbus aucubaria Rowan Berry	1	
Spinacia oleracea Spinach	2	
Stachys officinalis Purple Betony; Bishop's-Wort; Betony; Wood Betony	1	
Stachytarpheta jamaicensis Brazilian Tea	1	
Stellaria media Common Chickweed; Chickweed	1	
Stevia rebaudiana Stevia; Sweet Leaf of Paraguay; Ca-A-E	2	
Strychnos nux-vomica Nux-Vomica; Stychnine	1	
Symphytum officinale Comfrey	1	
Syzygium aromaticum Clove; Clovetree	2	461400.0
Tagetes lucida Sweet-Scent Mexican Marigold; Sweet-Mace; Anise Marigold; Sweet-Scent Marigold	1	
Tanacetum vulgare Tansy	1	
Taraxacum officinale Dandelion	1	
Terminalia arjuna Arjuna; Arjun	1	
Teucrium scordium Water Germander	1	
Teucrium micropodioides Small 'Cyprus' Germander	1	

Plant	# Chemicals	Total PPM
<i>Teucrium kotschyianum</i> Stavros Kotschy's Germander	1	
<i>Teucrium divaricatum</i> Hoary Divaricate Germander	1	
<i>Teucrium cyprium</i> 'Cyprus' Germander	1	
<i>Teucrium chamaedrys</i> Wall Germander	1	400.0
<i>Theobroma cacao</i> Cacao	1	
<i>Thymus vulgaris</i> Common Thyme; Garden Thyme; Thyme	2	
<i>Thymus funkii</i> Funk's Thyme	1	
<i>Thymus cilicicus</i> 'Anatolian' Thyme	1	
<i>Thymus capitatus</i> Spanish Thyme; 'Sicilian' Thyme; Spanish Origanum	1	
<i>Tilia</i> sp. Lime; Linden; Basswood	2	
<i>Trifolium pratense</i> Cowgrass; Purple Clover; Red Clover; Peavine Clover	2	
<i>Triticum aestivum</i> Wheat	1	10.0
<i>Tropaeolum majus</i> Nasturtium	1	
<i>Umbellularia californica</i> California Bay	1	80.0
<i>Uncaria tomentosa</i> Cat's Claw; Garabato Amarillo; Una de Gato	1	
<i>Uncaria guianensis</i> Ungunagi; Cat's Claw; Garabato Colorado; Una de Gato; Tambor Huasca	1	
<i>Urtica dioica</i> Stinging Nettle; European Nettle	1	
<i>Vaccinium myrtillus</i> Whortleberry; Dwarf Bilberry; Bilberry	2	
<i>Vaccinium macrocarpon</i> Cranberry; Large Cranberry; American Cranberry	2	
<i>Vaccinium corymbosum</i> Blueberry	2	6000.04
<i>Valeriana officinalis</i> Common Valerian; Garden-Heliotrope; Valerian	1	
<i>Vanilla planifolia</i> Vanilla; Bourbon Vanilla	1	
<i>Viburnum prunifolium</i> Black Haw	1	
<i>Viburnum opulus</i> Snowballbush; Crampbark; European Cranberry Bush; Guelder Rose	1	
<i>Viola odorata</i> Sweet Violet; Common Violet	1	714.0
<i>Vitis vinifera</i> European Grape; Wine Grape; Vigne Vinifere (Fr.); Weinrebe (Ger.); Parra (Sp.); Vid (Sp.); Grapevine; Grape	1	
<i>Withania somnifera</i> Ashwagandha	1	
<i>Zea mays</i> Corn	2	
<i>Zingiber officinale</i> Ginger	1	