

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for Cardiotonic

| Plants with Activity Synergy | Chemical Count | Total PPM |
|---|----------------|-----------|
| <i>Abutilon theophrasti</i> | 2 | |
| <i>Acacia nilotica</i> | 2 | |
| <i>Acacia farnesiana</i> | 1 | |
| <i>Acacia decurrens</i> | 1 | |
| <i>Acacia catechu</i> | 1 | |
| <i>Achillea millefolium</i> | 2 | |
| <i>Achyranthes bidentata</i> | 1 | |
| <i>Achyranthes aspera</i> | 1 | |
| <i>Acokanthera schimperi</i> | 1 | 14000.0 |
| <i>Aconitum napellus</i> | 2 | |
| <i>Aconitum carmichaelii</i> | 1 | |
| <i>Adonis vernalis</i> | 4 | |
| <i>Aesculus hippocastanum</i> | 6 | 60000.0 |
| <i>Aframomum melegueta</i> | 4 | |
| <i>Agastache rugosa</i> | 1 | |
| <i>Agastache pallidiflora</i> | 1 | |
| <i>Ageratum conyzoides</i> | 1 | |
| <i>Agrimonia eupatoria</i> | 2 | 12000.0 |
| <i>Akebia quinata</i> | 1 | |
| <i>Albizia lebbbeck</i> | 2 | |
| <i>Alchornea floribunda</i> | 1 | |
| <i>Allium sativum</i> var. <i>sativum</i> | 1 | |
| <i>Allium cepa</i> | 1 | |
| <i>Aloe vera</i> | 1 | |
| <i>Althaea officinalis</i> | 2 | |
| <i>Ammi visnaga</i> | 1 | |
| <i>Andira inermis</i> | 1 | |

| Plants with Activity Synergy | Chemical Count | Total PPM |
|-------------------------------|----------------|-----------|
| Anemarrhena asphodeloides | 1 | 25600.0 |
| Anethum graveolens | 2 | |
| Anisodus tanguticus | 1 | |
| Annona squamosa | 1 | |
| Annona reticulata | 1 | |
| Annona cherimola | 1 | |
| Apium graveolens | 2 | |
| Apocynum cannabinum | 2 | |
| Apocynum androsaemifolium | 1 | |
| Arbutus unedo | 1 | |
| Arctostaphylos uva-ursi | 5 | 15000.0 |
| Ardisia japonica | 1 | |
| Areca catechu | 1 | |
| Argemone mexicana | 2 | 820.0 |
| Artemisia vulgaris | 3 | |
| Artemisia dracunculus | 1 | |
| Artemisia capillaris | 1 | |
| Artemisia annua | 2 | |
| Artocarpus heterophyllus | 1 | |
| Asiasarum heterotropoides | 1 | |
| Aspalathus linearis | 2 | |
| Asparagus officinalis | 1 | |
| Aspidosperma quebracho-blanco | 1 | |
| Astragalus membranaceus | 1 | |
| Atropa bella-donna | 1 | 17424.0 |
| Avena sativa | 1 | |
| Azadirachta indica | 1 | |

| Plants with Activity Synergy | Chemical Count | Total PPM |
|------------------------------------|----------------|-----------|
| Baptisia tinctoria | 1 | |
| Belamcanda chinensis | 1 | |
| Berberis vulgaris | 2 | |
| Betula sp. | 1 | |
| Bocconia frutescens | 1 | |
| Brassica oleracea var. italica | 1 | |
| Brassica oleracea var. botrytis l. | 1 | |
| Calendula officinalis | 1 | |
| Camellia sinensis | 9 | 634200.0 |
| Camellia japonica | 1 | |
| Cananga odorata | 1 | |
| Cannabis sativa | 1 | |
| Capparis tomentosa | 1 | |
| Capparis spinosa | 1 | |
| Capsicum frutescens | 2 | 35800.0 |
| Capsicum annuum | 4 | 9000.0 |
| Carica papaya | 1 | 5500.0 |
| Carthamus tinctorius | 1 | |
| Casimiroa edulis | 1 | |
| Catalpa bignonioides | 1 | |
| Catha edulis | 1 | |
| Catharanthus roseus | 3 | |
| Catharanthus lanceus | 1 | 100000.0 |
| Caulophyllum thalictroides | 2 | |
| Centaurium erythraea | 1 | |
| Ceratonia siliqua | 2 | |
| Chelidonium majus | 2 | |

| Plants with Activity Synergy | Chemical Count | Total PPM |
|-------------------------------|----------------|--------------------|
| Chenopodium quinoa | 1 | |
| Chenopodium album | 1 | |
| Chimaphila umbellata | 2 | |
| Chrysanthemum x morifolium | 2 | |
| Chrysanthemum cinerariifolium | 1 | |
| Cichorium intybus | 4 | |
| Cinchona spp | 2 | |
| Cinchona pubescens | 1 | |
| Cinnamomum verum | 2 | |
| Cinnamomum sieboldii | 3 | |
| Cinnamomum aromaticum | 5 | |
| Citrullus colocynthis | 2 | |
| Citrus sinensis | 3 | 273.20000000000005 |
| Citrus paradisi | 1 | 116.0 |
| Citrus limon | 2 | 200.0 |
| Citrus aurantium | 2 | 2000.0 |
| Cnicus benedictus | 4 | |
| Coffea arabica | 3 | 128038.0 |
| Cola acuminata | 3 | 110000.0 |
| Coleus forskohlii | 1 | 9260.0 |
| Coleus barbatus | 1 | 9260.0 |
| Commiphora wightii | 1 | |
| Convallaria majalis | 2 | |
| Coptis spp | 2 | 180000.0 |
| Coptis japonica | 1 | 140000.0 |
| Coptis chinensis | 1 | 180000.0 |
| Corchorus olitorius | 1 | |

| Plants with Activity Synergy | Chemical Count | Total PPM |
|------------------------------|----------------|-----------|
| Cornus officinalis | 2 | |
| Cornus mas | 1 | |
| Cornus florida | 1 | |
| Corydalis spp | 4 | |
| Corylus avellana | 1 | |
| Crataegus rhipidophylla | 9 | |
| Crataegus monogyna | 5 | |
| Crataegus laevigata | 10 | |
| Crataegus cuneata | 1 | |
| Crocus sativus | 1 | |
| Croton lechleri | 2 | |
| Cryptostegia grandifolia | 1 | |
| Cucumis melo | 1 | |
| Curcuma longa | 1 | |
| Cuscuta reflexa | 1 | |
| Cynanchum atratum | 1 | |
| Cyperus rotundus | 1 | |
| Cytisus scoparius | 1 | |
| Daemonorops draco | 1 | |
| Datura stramonium | 1 | 980.0 |
| Datura metel | 1 | 7120.0 |
| Datura innoxia | 1 | 19230.0 |
| Datura candida | 1 | |
| Daucus carota | 2 | |
| Dictamnus albus | 1 | 1000.0 |
| Digitalis purpurea | 4 | 24500.0 |
| Digitalis lanata | 4 | 900.0 |

| Plants with Activity Synergy | Chemical Count | Total PPM |
|------------------------------|----------------|-----------|
| Dipteryx odorata | 1 | 70000.0 |
| Duboisia myoporoides | 2 | |
| Duchesnea indica | 1 | |
| Elaeagnus pungens | 2 | |
| Elaeagnus angustifolia | 2 | |
| Elaeis guineensis | 1 | |
| Eleutherococcus senticosus | 1 | |
| Ephedra sinica | 4 | 45000.0 |
| Ephedra nevadensis | 1 | |
| Ephedra gerardiana | 1 | 14000.0 |
| Equisetum arvense | 1 | |
| Eriobotrya japonica | 2 | |
| Erythrophleum suaveolens | 5 | |
| Erythroxyllum ulei | 1 | |
| Erythroxyllum steyermarkii | 1 | |
| Erythroxyllum sp. | 1 | |
| Erythroxyllum shatoni | 1 | |
| Erythroxyllum rotundifolium | 1 | |
| Erythroxyllum recurrens | 1 | |
| Erythroxyllum pulchrum | 1 | |
| Erythroxyllum pelleterianum | 1 | |
| Erythroxyllum panamense | 1 | |
| Erythroxyllum novogranatense | 1 | |
| Erythroxyllum monogynum | 1 | |
| Erythroxyllum mamacoca | 1 | |
| Erythroxyllum lucidum | 1 | |
| Erythroxyllum incrassatum | 1 | |

| Plants with Activity Synergy | Chemical Count | Total PPM |
|-----------------------------------|----------------|-----------|
| <i>Erythroxyllum impressum</i> | 1 | |
| <i>Erythroxyllum gracilipes</i> | 1 | |
| <i>Erythroxyllum glaucum</i> | 1 | |
| <i>Erythroxyllum fimbriatum</i> | 1 | |
| <i>Erythroxyllum deciduum</i> | 1 | |
| <i>Erythroxyllum cumanense</i> | 1 | |
| <i>Erythroxyllum coca</i> | 2 | |
| <i>Erythroxyllum cataractarum</i> | 1 | |
| <i>Erythroxyllum campestre</i> | 1 | |
| <i>Erythroxyllum brownianum</i> | 1 | |
| <i>Erythroxyllum areolatum</i> | 1 | |
| <i>Erythroxyllum amazonicum</i> | 1 | |
| <i>Eschscholzia californica</i> | 3 | |
| <i>Eucalyptus grandis</i> | 1 | |
| <i>Eucalyptus globulus</i> | 4 | |
| <i>Eucalyptus citriodora</i> | 2 | |
| <i>Euodia rutaecarpa</i> | 2 | |
| <i>Eupatorium triplinerve</i> | 1 | |
| <i>Fagopyrum esculentum</i> | 3 | |
| <i>Fallopia japonica</i> | 3 | |
| <i>Ferula alliacea</i> | 1 | |
| <i>Ficus carica</i> | 3 | |
| <i>Filipendula ulmaria</i> | 1 | |
| <i>Firmiana simplex</i> | 1 | |
| <i>Forsythia suspensa</i> | 2 | |
| <i>Fragaria spp</i> | 1 | |
| <i>Fraxinus rhynchophylla</i> | 1 | |

| Plants with Activity Synergy | Chemical Count | Total PPM |
|------------------------------|----------------|-----------|
| Fraxinus ornus | 1 | |
| Galanthus nivalis | 1 | |
| Galega officinalis | 1 | |
| Galium odoratum | 1 | 26000.0 |
| Gardenia jasminoides | 1 | |
| Gaultheria procumbens | 1 | |
| Gaultheria fragrantissima | 1 | |
| Genipa americana | 1 | |
| Genista tinctoria | 1 | |
| Gentiana lutea | 1 | |
| Geranium thunbergii | 1 | |
| Ginkgo biloba | 4 | |
| Glaucium flavum | 1 | |
| Glechoma hederacea | 2 | 1052.0 |
| Gleditsia triacanthos | 1 | |
| Glycine max | 3 | |
| Glycyrrhiza glabra | 2 | |
| Guaiacum sp. | 1 | |
| Guazuma ulmifolia | 1 | |
| Hamamelis virginiana | 1 | |
| Harpagophytum procumbens | 2 | |
| Hedera helix | 1 | |
| Helianthus annuus | 1 | |
| Helichrysum angustifolium | 1 | |
| Hesperis matronalis | 1 | |
| Hierochloe odorata | 1 | |
| Hippeastrum vittatum | 1 | |

| Plants with Activity Synergy | Chemical Count | Total PPM |
|------------------------------|----------------|-----------|
| Holarrhena pubescens | 1 | |
| Hordeum vulgare | 5 | 126.0 |
| Houttuynia cordata | 1 | |
| Humulus lupulus | 6 | |
| Hyacinthus orientalis | 1 | |
| Hydrastis canadensis | 3 | 180000.0 |
| Hyoscyamus niger | 2 | |
| Hypericum perforatum | 6 | |
| Hyptis capitata | 1 | |
| Hyssopus officinalis | 2 | 9800.0 |
| Ilex paraguariensis | 3 | 90000.0 |
| Jasminum officinale | 1 | 4940.0 |
| Juglans regia | 1 | |
| Juniperus oxycedrus | 1 | |
| Juniperus communis | 3 | |
| Justicia pectoralis | 1 | |
| Krameria triandra | 2 | |
| Lactuca virosa | 1 | |
| Lactuca scariola | 1 | |
| Lactuca sativa | 1 | |
| Laurus nobilis | 3 | |
| Lavandula x intermedia | 1 | |
| Lavandula latifolia | 3 | 47844.0 |
| Lavandula angustifolia | 2 | 17000.0 |
| Lawsonia inermis | 1 | |
| Lens culinaris | 1 | |
| Leonurus cardiaca | 4 | |

| Plants with Activity Synergy | Chemical Count | Total PPM |
|--------------------------------|----------------|-----------|
| <i>Levisticum officinale</i> | 1 | |
| <i>Ligustrum lucidum</i> | 2 | |
| <i>Ligustrum japonicum</i> | 3 | |
| <i>Limonia acidissima</i> | 1 | |
| <i>Liquidambar styraciflua</i> | 2 | |
| <i>Liquidambar orientalis</i> | 1 | |
| <i>Lophophora williamsii</i> | 1 | |
| <i>Luffa aegyptiaca</i> | 1 | |
| <i>Lycopersicon esculentum</i> | 3 | |
| <i>Lycopus virginicus</i> | 1 | |
| <i>Lycopus europeus</i> | 3 | 2400.0 |
| <i>Lycoris squamigera</i> | 1 | |
| <i>Lycoris radiata</i> | 1 | |
| <i>Macleaya cordata</i> | 2 | |
| <i>Mahonia siamensis</i> | 1 | |
| <i>Mahonia repens</i> | 1 | |
| <i>Mahonia philipinensis</i> | 1 | |
| <i>Mahonia nervosa</i> | 1 | |
| <i>Mahonia japonica</i> | 1 | |
| <i>Mahonia gracilipes</i> | 1 | |
| <i>Mahonia fortunei</i> | 1 | |
| <i>Mahonia fargesii</i> | 1 | |
| <i>Mahonia aquifolium</i> | 1 | |
| <i>Malus domestica</i> | 7 | |
| <i>Mandragora officinarum</i> | 1 | 7000.0 |
| <i>Marrubium vulgare</i> | 2 | 2400.0 |
| <i>Matricaria recutita</i> | 1 | |

| Plants with Activity Synergy | Chemical Count | Total PPM |
|------------------------------|----------------|--------------------|
| Medicago sativa | 1 | |
| Melaleuca leucadendra | 2 | |
| Melia azedarach | 2 | |
| Melilotus officinalis | 2 | 4000.0 |
| Melissa officinalis | 2 | |
| Menispermum canadense | 1 | |
| Mentha x rotundifolia | 2 | |
| Mentha x piperita | 3 | 0.6000000000000001 |
| Mentha spicata | 2 | |
| Mentha longifolia | 1 | |
| Micromeria juliana | 1 | |
| Mitragyna speciosa | 2 | 300.0 |
| Monarda didyma | 1 | |
| Morinda citrifolia | 1 | |
| Moringa oleifera | 1 | |
| Morus alba | 2 | |
| Murraya sp | 1 | |
| Musa x paradisiaca | 1 | 1400.0 |
| Myristica fragrans | 2 | |
| Myroxylon balsamum | 2 | 8000.0 |
| Nandina domestica | 1 | |
| Narcissus tazetta | 2 | 2230.0 |
| Nelumbo nucifera | 2 | |
| Nepeta cataria | 1 | |
| Nerium oleander | 5 | 86000.0 |
| Nicotiana tabacum | 2 | |
| Ocimum tenuiflorum | 2 | |

| Plants with Activity Synergy | Chemical Count | Total PPM |
|------------------------------|----------------|-----------|
| Ocimum suave | 1 | |
| Ocimum canum | 1 | |
| Ocimum basilicum | 5 | 8222.0 |
| Olea europaea | 3 | |
| Ononis spinosa | 1 | |
| Opuntia ficus-indica | 1 | |
| Origanum vulgare | 2 | 6200.0 |
| Origanum majorana | 2 | 13600.0 |
| Panax quinquefolius | 3 | |
| Panax japonicus | 1 | |
| Panax ginseng | 3 | |
| Pancratium maritimum | 2 | |
| Papaver somniferum | 3 | |
| Paullinia yoko | 1 | 109200.0 |
| Paullinia cupana | 3 | 304730.0 |
| Pausinystalia johimbe | 1 | |
| Persea americana | 1 | |
| Petiveria alliacea | 1 | |
| Peumus boldus | 1 | 5125.0 |
| Phaseolus vulgaris | 1 | |
| Phellodendron amurense | 1 | 20000.0 |
| Phoenix dactylifera | 1 | |
| Phoradendron juniperinum | 1 | |
| Phyllanthus niruri | 1 | |
| Phytolacca americana | 1 | |
| Pimenta dioica | 1 | |
| Pinus sylvestris | 3 | |

| Plants with Activity Synergy | Chemical Count | Total PPM |
|------------------------------|----------------|-----------|
| Pinus elliottii | 1 | |
| Piper nigrum | 2 | 240000.0 |
| Piper cubeba | 1 | |
| Pistacia lentiscus | 1 | |
| Pisum sativum | 1 | |
| Plantago major | 2 | |
| Plantago asiatica | 1 | |
| Plectranthus barbatus | 1 | |
| Plectranthus amboinicus | 3 | |
| Plumeria acutifolia | 1 | |
| Podophyllum peltatum | 1 | |
| Podophyllum hexandrum | 1 | |
| Pogostemon cablin | 1 | |
| Polianthes tuberosa | 1 | |
| Polygala penaea | 1 | |
| Polygonum multiflorum | 1 | |
| Polygonum hydropiper | 1 | |
| Polygonum aviculare | 1 | |
| Populus balsamifera | 1 | |
| Portulaca oleracea | 1 | |
| Prosopis glandulosa | 2 | |
| Prunella vulgaris | 2 | |
| Prunus spinosa | 1 | |
| Prunus serotina | 1 | |
| Prunus persica | 3 | |
| Prunus laurocerasus | 1 | 20000.0 |
| Prunus dulcis | 1 | |

| Plants with Activity Synergy | Chemical Count | Total PPM |
|------------------------------|----------------|-----------|
| Prunus cerasus | 5 | |
| Prunus armeniaca | 1 | |
| Prunus africana | 2 | |
| Psidium guajava | 3 | |
| Psoralea corylifolia | 1 | |
| Pterocarpus marsupium | 1 | |
| Ptychopetalum olacoides | 1 | |
| Pulsatilla chinensis | 2 | |
| Punica granatum | 3 | |
| Pyrus communis | 2 | |
| Quercus velutina | 1 | |
| Quercus alba | 1 | |
| Quisqualis indica | 1 | |
| Rauvolfia vomitoria | 1 | |
| Rauvolfia serpentina | 1 | |
| Rheum rhabarbarum | 3 | |
| Rheum palmatum | 3 | |
| Rheum officinale | 3 | |
| Rhododendron ponticum | 4 | |
| Rhododendron ferrugineum | 1 | |
| Rhododendron dauricum | 1 | |
| Rhus coriaria | 1 | |
| Ribes uva-crispa | 1 | |
| Ribes nigrum | 2 | 27600.0 |
| Ricinus communis | 1 | |
| Rosa woodsii | 1 | |
| Rosa multiflora | 2 | |

| Plants with Activity Synergy | Chemical Count | Total PPM |
|------------------------------|----------------|-----------|
| Rosa gallica | 1 | |
| Rosa damascena | 1 | |
| Rosa centifolia | 1 | |
| Rosa canina | 3 | |
| Rosmarinus officinalis | 2 | 103000.0 |
| Rubus idaeus | 2 | |
| Rubus fruticosus | 1 | |
| Rumex crispus | 3 | |
| Ruta graveolens | 2 | |
| Salix alba | 1 | |
| Salvia triloba | 2 | 159400.0 |
| Salvia sclarea | 2 | |
| Salvia officinalis | 2 | 5372.0 |
| Sambucus nigra | 2 | |
| Sambucus canadensis | 1 | |
| Sanguinaria canadensis | 2 | 120000.0 |
| Sanguisorba officinalis | 2 | |
| Santalum album | 1 | |
| Satureja montana | 2 | 32000.0 |
| Satureja hortensis | 2 | 6600.0 |
| Scopolia carniolica | 1 | |
| Selenicereus grandiflorus | 1 | |
| Sesamum indicum | 1 | |
| Sida rhombifolia | 1 | |
| Skimmia japonica | 1 | |
| Solanum tuberosum | 1 | 35200.0 |
| Solanum nigrum | 2 | 80.0 |

| Plants with Activity Synergy | Chemical Count | Total PPM |
|------------------------------|----------------|-----------|
| Solanum melongena | 2 | |
| Solanum mammosum | 1 | |
| Solanum carolinense | 1 | |
| Solidago virgaurea | 1 | |
| Solidago gigantea | 1 | |
| Sophora subprostrata | 1 | |
| Sophora angustifolia | 1 | |
| Sorbus aucubaria | 2 | |
| Spartium junceum | 1 | |
| Spinacia oleracea | 1 | |
| Stachys officinalis | 1 | |
| Stachys betonicifolia | 1 | |
| Stachytarpheta jamaicensis | 1 | |
| Stevia rebaudiana | 1 | |
| Strophanthus kombe | 4 | 4800.0 |
| Strophanthus hispidus | 3 | 21400.0 |
| Strophanthus gratus | 1 | 152000.0 |
| Strophanthus divaricatus | 1 | |
| Swertia chirata | 1 | |
| Symphytum officinale | 1 | |
| Syringa vulgaris | 1 | |
| Syzygium claviflorum | 2 | |
| Syzygium aromaticum | 3 | 40000.0 |
| Tabernanthe iboga | 1 | |
| Tamarindus indica | 2 | |
| Taxus baccata | 1 | |
| Tecoma stans | 1 | 160.0 |

| Plants with Activity Synergy | Chemical Count | Total PPM |
|------------------------------|----------------|-----------|
| Terminalia pallida | 1 | |
| Terminalia catappa | 4 | |
| Terminalia arjuna | 1 | |
| Ternstroemia gymnanthera | 1 | |
| Teucrium scorodonia | 1 | |
| Teucrium scordium | 1 | |
| Teucrium polium | 2 | |
| Teucrium chamaedrys | 1 | |
| Theobroma cacao | 7 | 120100.0 |
| Theobroma bicolor | 2 | |
| Theobroma angustifolium | 2 | |
| Thevetia peruviana | 5 | |
| Thevetia nerifolia | 3 | |
| Thuja occidentalis | 2 | |
| Thymus vulgaris | 3 | 50200.0 |
| Thymus serpyllum | 2 | 27800.0 |
| Tilia sp. | 1 | |
| Tragopogon porrifolius | 1 | |
| Trifolium pratense | 3 | |
| Trigonella foenum-graecum | 4 | 534.0 |
| Trilisa odoratissima | 1 | |
| Turnera diffusa | 1 | |
| Ulex europaeus | 1 | |
| Uncaria tomentosa | 3 | |
| Uncaria guianensis | 1 | |
| Uncaria catechu | 2 | |
| Urginea maritima | 2 | 1000.0 |

| Plants with Activity Synergy | Chemical Count | Total PPM |
|------------------------------|----------------|-----------|
| Urginea indica | 1 | |
| Urtica dioica | 3 | |
| Vaccinium vitis-idaea | 4 | 22000.0 |
| Vaccinium myrtillus | 6 | 5000.0 |
| Vaccinium macrocarpon | 3 | |
| Vaccinium corymbosum | 4 | |
| Vanilla planifolia | 3 | |
| Verbascum thapsus | 2 | |
| Verbena officinalis | 1 | |
| Viburnum prunifolium | 3 | |
| Viburnum opulus | 2 | |
| Vicia faba | 1 | |
| Vinca minor | 1 | 100800.0 |
| Viscum album | 1 | |
| Vitis vinifera | 8 | |
| Xanthorhiza simplicissima | 2 | |
| Xylopi aethiopica | 1 | |
| Zanthoxylum clava-herculis | 1 | |
| Zanthoxylum americanum | 1 | |
| Zanthoxylum alatum | 2 | |
| Zea mays | 4 | |
| Zingiber officinale | 7 | 20508.0 |
| Zizyphus jujuba | 3 | 6000.0 |