

List of Plants



Chemid

BETULIN

*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	Part	Low PPM	High PPM	StdDev	*Reference
<i>Abies balsamea</i>	Bark	--	--		Jim Duke's personal files.
<i>Abies balsamea</i>	Twig	--	--		Jim Duke's personal files.
<i>Abies balsamea</i>	Leaf	--	--		Jim Duke's personal files.
<i>Acacia senegal</i>	Root	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Acacia nilotica</i>	Plant	--	--		*
<i>Acacia tortilis</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Acacia senegal</i>	Flower	--	--		Jim Duke's personal files.
<i>Acacia modesta</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Acacia tortilis</i>	Heart Wood	--	--		Jim Duke's personal files.
<i>Acacia nilotica</i>	Root Bark	--	--		Jim Duke's personal files.
<i>Acacia lenticularis</i>	Heart Wood	--	46.6	-1.0	Jim Duke's personal files.
<i>Acanthus ilicifolius</i>	Leaf	--	--		Jim Duke's personal files.
<i>Acinos thymoides</i>	Shoot	--	500.0	0.85	Jim Duke's personal files.
<i>Acrotrema arnottianum</i>	Leaf	--	650.0	-0.19	Jim Duke's personal files.
<i>Aerva lanata</i>	Plant	--	64.0	-0.57	Jim Duke's personal files.
<i>Alangium lamarckii</i>	Seed	--	2222.2		Jim Duke's personal files.
<i>Alnus rugosa</i>	Fruit	--	--		Jim Duke's personal files.
<i>Alnus nepalensis</i>	Bark	--	2300.0	-0.06	Jim Duke's personal files.
<i>Alnus rugosa</i>	Bark	--	--		Jim Duke's personal files.
<i>Alnus maximowiczii</i>	Root	--	32.9	-1.0	Jim Duke's personal files.
<i>Alnus rugosa</i>	Leaf	--	--		Jim Duke's personal files.
<i>Alnus rubra</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Alnus crispa</i>	Bark	--	--		Jim Duke's personal files.
<i>Alphitonia petriei</i>	Bark	--	--		Jim Duke's personal files.
<i>Alphitonia excelsa</i>	Wood	--	--		Jim Duke's personal files.
<i>Alphitonia whitei</i>	Bark	--	340.0	-0.36	Jim Duke's personal files.
<i>Alphitonia whitei</i>	Wood	--	12.0	-1.23	Jim Duke's personal files.
<i>Alphitonia excelsa</i>	Bark	--	45.0	-0.4	Jim Duke's personal files.
<i>Alphitonia petriei</i>	Wood	--	--		Jim Duke's personal files.
<i>Alphitonia macrocarpa</i>	Wood	--	--		Jim Duke's personal files.
<i>Alphitonia petriei</i>	Leaf	--	--		Jim Duke's personal files.

Alphitonia whitei	Leaf	--	8.0	-0.48	Jim Duke's personal files.
Alphitonia macrocarpa	Leaf	--	--		Jim Duke's personal files.
Alstonia scholaris	Leaf	--	--		Jim Duke's personal files.
Alyxia levinei	Shoot	--	--		Jim Duke's personal files.
Amanoa oblongifolia	Stem Bark	--	0.3	-0.37	Jim Duke's personal files.
Amoora canarana	Root	--	--		Jim Duke's personal files.
Ampelozizyphus amazonicus	Root	--	--		Jim Duke's personal files.
Artocarpus integrifolia	Root Bark	--	--		Jim Duke's personal files.
Atractylis carduus	Shoot	--	30.0	-0.56	Jim Duke's personal files.
Avicennia officinalis	Leaf	--	140.0	-0.42	Jim Duke's personal files.
Avicennia tomentosa	Stem Bark	--	--		Jim Duke's personal files.
Avicennia alba	Stem Bark	--	100.0	-0.33	Jim Duke's personal files.
Avicennia officinalis	Stem Bark	--	270.0	-0.26	Jim Duke's personal files.
Avicennia alba	Leaf	--	120.0	-0.43	Jim Duke's personal files.
Betula caerulea	Bark	--	--		Jim Duke's personal files.
Betula caerulea-grandis	Bark	--	--		Jim Duke's personal files.
Betula lenta	Bark	--	500.0	-0.34	Jim Duke's personal files.
Betula populifolia	Bark	--	--		Jim Duke's personal files.
Betula papyrifera	Bark	--	15000.0	1.85	Jim Duke's personal files.
Betula dahurica	Bark	--	--		Jim Duke's personal files.
Betula alleghaniensis	Heart Wood	--	--		Jim Duke's personal files.
Betula utilis	Plant	--	--		Jim Duke's personal files.
Betula platyphylla	Bark	--	--		Jim Duke's personal files.
Betula maximowicziana	Bark	--	32000.0	4.41	Jim Duke's personal files.
Betula alleghaniensis	Bark	--	--		Jim Duke's personal files.
Betula cordifolia	Bark	--	--		Jim Duke's personal files.
Betula lenta	Heart Wood	--	--		Jim Duke's personal files.
Betula sp.	Bark	--	--		Jim Duke's personal files.
Betula papyrifera	Heart Wood	--	--		Jim Duke's personal files.
Betula ermanii	Bark	--	--		Jim Duke's personal files.
Betula alba	Bark	--	--		Jim Duke's personal files.
Bruguiera gymnorrhiza	Leaf	--	--		Jim Duke's personal files.
Bupleurum salicifolium	Leaf	--	--		Jim Duke's personal files.
Buxus microphylla	Shoot	--	--		Jim Duke's personal files.
Byrsonima crassifolia	Leaf	--	204.7	-0.39	Jim Duke's personal files.
Callistemon lanceolatus	Leaf	--	--		Jim Duke's personal files.

<i>Canavalia bonariensis</i>	Root	--	--		Jim Duke's personal files.
<i>Caraipa densifolia</i>	Bark	--	32.0	-0.41	Jim Duke's personal files.
<i>Careya arborea</i>	Bark	--	6000.0	0.49	Jim Duke's personal files.
<i>Carlina corymbosa</i>	Plant	--	--		Jim Duke's personal files.
<i>Carya ovata</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Cassia siamea</i>	Flower	--	5.0	-1.0	Jim Duke's personal files.
<i>Cassinia uncata</i>	Shoot	--	83.3	-0.4	Jim Duke's personal files.
<i>Castanea sativa</i>	Leaf	--	1000.0	-0.03	Jim Duke's personal files.
<i>Castanopsis concinna</i>	Stem	--	6.0	-0.01	Jim Duke's personal files.
<i>Castanopsis lamontii</i>	Leaf	--	0.3	-0.49	Jim Duke's personal files.
<i>Castanopsis eyrei</i>	Stem	--	9.0	0.7	Jim Duke's personal files.
<i>Ceanothus americanus</i>	Root Bark	--	--		Jim Duke's personal files.
<i>Ceriops decandra</i>	Leaf	--	--		Jim Duke's personal files.
<i>Cistus laurifolius</i>	Shoot	--	13.3	-0.61	Jim Duke's personal files.
<i>Clerodendrum inerme</i>	Stem	--	--		Jim Duke's personal files.
<i>Clinacanthus nutans</i>	Rhizome	--	--		Jim Duke's personal files.
<i>Clinopodium vulgare</i>	Shoot	--	--		Jim Duke's personal files.
<i>Coccinia grandis</i>	Seed	--	--		Akihisa, T., Kimura, Y., Kasahara, Y., Kumaki, K., Thakur, S., Tamura, T. 1997. 7-oxodihydrokaroundiol-3-benzoate and other triterpenes from the seeds of cucurbitaceae. <i>Phytochemistry</i> , 46(7): 1261-1266.
<i>Comptonia peregrina</i>	Root	--	--		Jim Duke's personal files.
<i>Comptonia peregrina</i>	Leaf	--	--		Jim Duke's personal files.
<i>Comptonia peregrina</i>	Stem	--	--		Jim Duke's personal files.
<i>Cornus capitata</i>	Stem	--	8.3	0.53	Jim Duke's personal files.
<i>Corylus avellana</i>	Bark	--	--		List, P.H. and Horhammer, L., <i>Hager's Handbuch der Pharmazeutischen Praxis</i> , Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Croton macrostachys</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Croton megalocarpus</i>	Stem Bark	--	25.0	-0.36	Jim Duke's personal files.
<i>Dalbergia sericea</i>	Bark	--	--		Jim Duke's personal files.
<i>Derris trifoliata</i>	Leaf	--	--		Jim Duke's personal files.
<i>Desmodium pulchellum</i>	Root	--	--		Jim Duke's personal files.
<i>Dicliptera roxburghiana</i>	Leaf	--	--		Jim Duke's personal files.
<i>Dillenia pentagyna</i>	Leaf	--	1500.0	0.19	Jim Duke's personal files.
<i>Dillenia anhamanica</i>	Leaf	--	820.0	-0.12	Jim Duke's personal files.
<i>Dillenia retusa</i>	Leaf	--	680.0	-0.18	Jim Duke's personal files.
<i>Dillenia indica</i>	Fruit	--	--		Jim Duke's personal files.
<i>Dillenia scabrella</i>	Leaf	--	1200.0	0.06	Jim Duke's personal files.

<i>Dillenia bracteata</i>	Leaf	--	700.0	-0.17	Jim Duke's personal files.
<i>Dillenia indica</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Dillenia pentagyna</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Dillenia aurea</i>	Leaf	--	450.0	-0.28	Jim Duke's personal files.
<i>Dillenia indica</i>	Leaf	--	1050.0	-0.01	Jim Duke's personal files.
<i>Diospyros melanoxylon</i>	Stem Bark	--	2500.0	0.63	Jim Duke's personal files.
<i>Diospyros siamensis</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros kaki</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Diospyros quaesita</i>	Bark	--	3700.0	0.15	Jim Duke's personal files.
<i>Diospyros abyssinica</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros melanoxylon</i>	Heart Wood	--	200.0	1.0	Jim Duke's personal files.
<i>Diospyros sanzaminika</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros hirsuta</i>	Fruit	--	80.0	-1.19	Jim Duke's personal files.
<i>Diospyros montana</i>	Wood	--	300.0	-0.29	Jim Duke's personal files.
<i>Diospyros discolour</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Diospyros montana</i>	Fruit	--	--		Jim Duke's personal files.
<i>Diospyros mollis</i>	Root	--	1800.0	1.0	Jim Duke's personal files.
<i>Diospyros eriantha</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros mannii</i>	Stem Bark	--	47.6	-0.35	Jim Duke's personal files.
<i>Diospyros leucomelas</i>	Leaf	--	--		Jim Duke's personal files.
<i>Diospyros maingayi</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros iturensis</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros hoyleana</i>	Wood	--	190.0	-0.65	Jim Duke's personal files.
<i>Diospyros wallichii</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros undulata</i>	Root	--	--		Jim Duke's personal files.
<i>Diospyros gracilescens</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Diospyros walkeri</i>	Bark	--	800.0	-0.29	Jim Duke's personal files.
<i>Diospyros sumatrana</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros fragrans</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros crassiflora</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros spinescens</i>	Bark	--	1620.0	-0.17	Jim Duke's personal files.
<i>Diospyros ebum</i>	Leaf	--	--		Jim Duke's personal files.
<i>Diospyros cinnabarina</i>	Bark	--	--		Jim Duke's personal files.

Diospyros tomentosa	Shoot	--	--		Jim Duke's personal files.
Diospyros canaliculata	Bark	--	--		Jim Duke's personal files.
Diospyros perigrina	Bark	--	--		Jim Duke's personal files.
Diospyros siderophylla	Bark	--	--		Jim Duke's personal files.
Diospyros melanoxyton	Plant	--	2000.0	2.08	Jim Duke's personal files.
Diospyros siamang	Wood	--	--		Jim Duke's personal files.
Diospyros kaki	Root	--	--		Jim Duke's personal files.
Diospyros oblongifolia	Fruit	--	1000.0	1.26	Jim Duke's personal files.
Diospyros rotundifolia	Stem	--	--		Jim Duke's personal files.
Diospyros hirsuta	Bark	--	2000.0	-0.11	Jim Duke's personal files.
Diospyros montana	Stem Bark	--	10000.0	3.63	Jim Duke's personal files.
Diospyros melanoxyton	Fruit	--	--		Jim Duke's personal files.
Diospyros montana	Bark	--	190.0	-0.38	Jim Duke's personal files.
Diospyros discolour	Fruit	--	500.0	-0.07	Jim Duke's personal files.
Diospyros verrucosa	Stem Bark	--	250.0	-0.27	Jim Duke's personal files.
Diospyros mespiliformis	Bark	--	--		Jim Duke's personal files.
Diospyros ebum	Heart Wood	--	--		Jim Duke's personal files.
Diospyros malanonilau	Heart Wood	--	--		Jim Duke's personal files.
Diospyros kamerunensis	Bark	--	--		Jim Duke's personal files.
Diospyros longiflora	Wood	--	--		Jim Duke's personal files.
Diospyros iturensis	Bark	--	120.0	-0.39	Jim Duke's personal files.
Diospyros hoyleana	Bark	--	110.0	-0.4	Jim Duke's personal files.
Diospyros zenkeri	Wood	--	70.0	-1.04	Jim Duke's personal files.
Diospyros wallichii	Bark	--	--		Jim Duke's personal files.
Diospyros thwaitesii	Wood	--	550.0	0.53	Jim Duke's personal files.
Diospyros gracilescens	Bark	--	120.0	-0.39	Jim Duke's personal files.
Diospyros sumatrana	Bark	--	--		Jim Duke's personal files.
Diospyros elliptifolia	Bark	--	--		Jim Duke's personal files.
Diospyros consolatae	Leaf	--	2100.0	0.46	Jim Duke's personal files.
Diospyros dendo	Wood	--	--		Jim Duke's personal files.
Diospyros chevalieri	Bark	--	--		Jim Duke's personal files.
Diospyros perigrina	Leaf	--	10000.0	4.03	Jim Duke's personal files.

<i>Diospyros singaporensis</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros argentea</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Diospyros melanoxylon</i>	Wood	100.0	200.0	-0.61	Jim Duke's personal files.
<i>Diospyros siamensis</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Diospyros melanoxylon</i>	Leaf	--	--		Jim Duke's personal files.
<i>Diospyros siamang</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros hirsuta</i>	Wood	--	1100.0	2.33	Jim Duke's personal files.
<i>Diospyros moonii</i>	Wood	--	560.0	0.56	Jim Duke's personal files.
<i>Diospyros discolour</i>	Wood	--	800.0	1.35	Jim Duke's personal files.
<i>Diospyros montana</i>	Leaf	--	--		Jim Duke's personal files.
<i>Diospyros melanoxylon</i>	Bark	--	5000.0	0.34	Jim Duke's personal files.
<i>Diospyros quaesita</i>	Wood	--	480.0	0.3	Jim Duke's personal files.
<i>Diospyros buxifolia</i>	Shoot	--	--		Jim Duke's personal files.
<i>Diospyros monbuttensis</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros verrucosa</i>	Root Bark	--	500.0	-1.0	Jim Duke's personal files.
<i>Diospyros maritima</i>	Root	--	--		Jim Duke's personal files.
<i>Diospyros maingayi</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros japonica</i>	Root	--	--		Jim Duke's personal files.
<i>Diospyros ismailii</i>	Fruit	--	--		Jim Duke's personal files.
<i>Diospyros longiflora</i>	Bark	--	100.0	-0.4	Jim Duke's personal files.
<i>Diospyros zenkeri</i>	Bark	--	666.7	-0.31	Jim Duke's personal files.
<i>Diospyros gracilescens</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros walkeri</i>	Wood	--	290.0	-0.32	Jim Duke's personal files.
<i>Diospyros sylvatica</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros gabunensis</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros spinescens</i>	Wood	--	910.0	1.71	Jim Duke's personal files.
<i>Diospyros ebum</i>	Stem Bark	--	325.0	-0.24	Jim Duke's personal files.
<i>Diospyros cinnabarina</i>	Wood	--	--		Jim Duke's personal files.
<i>Diospyros celebica</i>	Heart Wood	--	--		Jim Duke's personal files.
<i>Diospyros perigrina</i>	Fruit	--	--		Jim Duke's personal files.
<i>Diospyros singaporensis</i>	Bark	--	--		Jim Duke's personal files.
<i>Diospyros dendo</i>	Bark	--	60.0	-0.4	Jim Duke's personal files.

Dipterocarpus hispidus	Wood	--	--		Jim Duke's personal files.
Dipterocarpus glandulosus	Wood	--	--		Jim Duke's personal files.
Dipterocarpus zeylanicus	Wood	--	--		Jim Duke's personal files.
Dipterocarpus insignis	Wood	--	--		Jim Duke's personal files.
Dipteryx odorata	Bark	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Duboisia leichhardtii	Shoot	--	--		Jim Duke's personal files.
Ehretia laevis	Bark	--	160.0	-0.39	Jim Duke's personal files.
Erica arborea	Leaf	--	--		Jim Duke's personal files.
Euclea divinorum	Root	--	--		Jim Duke's personal files.
Euclea crispa	Root Bark	--	22000.0	1.0	Jim Duke's personal files.
Eucommia ulmoides	Bark	--	--		Jim Duke's personal files.
Euonymus echinatus	Bark	--	--		Jim Duke's personal files.
Euphorbia hermentiana	Stem	--	--		Jim Duke's personal files.
Euphorbia lathyris	Plant	--	--		*
Euphorbia paralias	Plant	--	300.0	-0.24	Jim Duke's personal files.
Euphorbia broteri	Plant	--	--		Jim Duke's personal files.
Euphorbia hirta	Stem	--	--		*
Fagonia indica	Plant	--	--		Jim Duke's personal files.
Fagonia cretica	Plant	--	--		Jim Duke's personal files.
Flindersia pimenteliana	Bark	--	--		Jim Duke's personal files.
Flindersia pimenteliana	Leaf	--	--		Jim Duke's personal files.
Fraxinus americana	Root	--	--		Jim Duke's personal files.
Fraxinus americana	Leaf	--	--		Jim Duke's personal files.
Garcinia mangostana	Leaf	--	250.0	-0.37	Jim Duke's personal files.
Garcinia xanthochymus	Leaf	--	7500.0	2.9	Jim Duke's personal files.
Givotia rottleriformis	Bark	--	--		Jim Duke's personal files.
Glechoma hirsuta	Plant	--	100.0	-0.52	Jim Duke's personal files.
Gmelina arborea	Wood	--	--		Jim Duke's personal files.
Grewia tenax	Stem Bark	--	--		Jim Duke's personal files.
Grewia asiatica	Stem Bark	--	--		Jim Duke's personal files.
Grewia flavescens	Root	--	--		Jim Duke's personal files.
Grewia asiatica	Bark	--	--		Jim Duke's personal files.
Grewia tiliaefolia	Bark	--	--		Jim Duke's personal files.
Grewia bicolor	Root	--	--		Jim Duke's personal files.
Guazuma tomentosa	Tb	--	17.0		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Guazuma tomentosa	Bark	--	17.0	-0.41	*

Gymnostachyum latifolium	Stem	--	--		Jim Duke's personal files.
Gymnostachyum latifolium	Root	--	--		Jim Duke's personal files.
Haplophyton cimidum	Plant	--	--		Jim Duke's personal files.
Hedyotis lawsoniae	Shoot	--	1.2	-0.64	Jim Duke's personal files.
Helichrysum bilobum	Plant	--	20.0	-0.63	Jim Duke's personal files.
Hibiscus syriacus	Bark	--	--		*
Holacantha emoryi	Seed	--	--		Jim Duke's personal files.
Hopea cordifolia	Wood	--	290.0	-0.32	Jim Duke's personal files.
Hopea brevipetolaris	Wood	--	--		Jim Duke's personal files.
Hopea jucunda	Wood	--	160.0	-0.74	Jim Duke's personal files.
Hygrophila auriculata	Root	--	--		Jim Duke's personal files.
Hyssopus ferganensis	Plant	--	--		Jim Duke's personal files.
Hyssopus seravshanicus	Plant	--	--		Jim Duke's personal files.
Ilex verticillata	Fruit	--	--		Jim Duke's personal files.
Ilex verticillata	Bark	--	--		Jim Duke's personal files.
Ilex verticillata	Leaf	--	--		Jim Duke's personal files.
Inonotus obliquus	Plant	--	--		*
Juglans regia	Bark	--	--		Jim Duke's personal files.
Juniperus communis	Stem	--	--		Jim Duke's personal files.
Juniperus horizontalis	Stem	--	--		Jim Duke's personal files.
Juniperus communis	Leaf	--	--		Jim Duke's personal files.
Juniperus horizontalis	Leaf	--	--		Jim Duke's personal files.
Juniperus communis	Fruit	--	--		Jim Duke's personal files.
Kleinhovia hospita	Fruit	--	--		Jim Duke's personal files.
Larix laricina	Twig	--	--		Jim Duke's personal files.
Larix laricina	Root	--	--		Jim Duke's personal files.
Lasianthus chinensis	Leaf	--	--		Jim Duke's personal files.
Lavandula spica	Plant	--	1666.6	1.62	Jim Duke's personal files.
Lawsonia inermis	Plant	--	--		Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar.
Lawsonia inermis	Bark	--	--		*
Lemaireocereus thurberi	Stem	--	--		Jim Duke's personal files.
Lemaireocereus griseus	Plant	--	--		Jim Duke's personal files.
Limnophila rugosa	Plant	--	--		Jim Duke's personal files.
Lithocarpus elizabethae	Stem	--	--		Jim Duke's personal files.

Lithocarpus polystachya	Stem	--	0.4	-1.34	Jim Duke's personal files.
Lithocarpus cornea	Stem	--	1.0	-1.2	Jim Duke's personal files.
Lithocarpus haipinii	Stem	--	--		Jim Duke's personal files.
Lumnitzera racemosa	Bark	--	11.4	-0.41	Jim Duke's personal files.
Lumnitzera racemosa	Leaf	--	83.3	-0.45	Jim Duke's personal files.
Maytenus octogona	Plant	--	--		Jim Duke's personal files.
Maytenus boaria	Plant	--	82.2	-0.54	Jim Duke's personal files.
Maytenus canariensis	Plant	--	--		Jim Duke's personal files.
Maytenus senegalensis	Leaf	--	--		Jim Duke's personal files.
Melaleuca leucadendra	Bark	--	--		*
Melaleuca leucadendron	Stem	--	8.0	0.46	Jim Duke's personal files.
Melaleuca leucadendron	Leaf	--	13.0	-0.48	Jim Duke's personal files.
Menyanthes trifoliata	Root	--	--		*
Micromeria benthamii	Plant	--	--		Jim Duke's personal files.
Mitrephora heyneana	Bark	--	--		Jim Duke's personal files.
Myrica cerifera	Leaf	--	--		*
Myrica cerifera	Stem	--	--		*
Myrica cerifera	Fruit	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Myrica cerifera	Root	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Nerium oleander	Leaf	--	--		Jim Duke's personal files.
Neuracanthus sphaerostachys	Plant	--	--		Jim Duke's personal files.
Origanum compactum	Shoot	--	90.0	-0.38	Jim Duke's personal files.
Orthosphenia mexicana	Shoot	--	--		Jim Duke's personal files.
Panax pseudoginseng	Seed Oil	--	--		Jim Duke's personal files.
Parthenium hysterophorus	Leaf	--	--		Jim Duke's personal files.
Phillyrea latifolia	Leaf	--	--		Jim Duke's personal files.
Phlogacanthus thyrsoiflorus	Leaf	--	--		Jim Duke's personal files.
Phyllanthus flexuosus	Stem Bark	--	5.3	-0.37	Jim Duke's personal files.
Phyllanthus reticulatus	Root	--	--		Jim Duke's personal files.
Picea mariana	Leaf	--	--		Jim Duke's personal files.
Picea mariana	Bark	--	--		Jim Duke's personal files.
Picea mariana	Twig	--	--		Jim Duke's personal files.
Platycodon grandiflorum	Root	--	--		*
Plectranthus rugosus	Plant	--	45.0	-0.59	Jim Duke's personal files.

Porteresia coarctata	Leaf	--	--		Jim Duke's personal files.
Premna integrifolia	Stem Bark	--	--		Jim Duke's personal files.
Prunus pensylvanica	Bark	--	--		Jim Duke's personal files.
Prunus pensylvanica	Leaf	--	--		Jim Duke's personal files.
Psychotria adenophylla	Leaf	--	--		Jim Duke's personal files.
Pterocarpus santalinus	Bark	--	--		*
Pterospermum suberifolium	Seed	--	--		Jim Duke's personal files.
Pterospermum acerifolium	Leaf	--	--		Jim Duke's personal files.
Pterospermum suberifolium	Leaf	--	--		Jim Duke's personal files.
Pterospermum lanceaefolium	Flower	--	3800.0	1.0	Jim Duke's personal files.
Pterospermum xylocarpum	Leaf	--	--		Jim Duke's personal files.
Pyropolyporus fomentarius	Fruit	--	--		Jim Duke's personal files.
Quercus bambusaefolia	Stem	--	14.0	1.89	Jim Duke's personal files.
Quercus myrsinaefolia	Stem	--	0.55	-1.3	Jim Duke's personal files.
Quercus championi	Stem	--	6.6	0.13	Jim Duke's personal files.
Quercus suber	Cork	--	--		*
Rabdosia adenantha	Plant	--	--		Jim Duke's personal files.
Rheedia gardneriana	Bark	--	--		Jim Duke's personal files.
Rhizophora mucronata	Leaf	--	--		Jim Duke's personal files.
Rhododendron anthopogon	Stem	--	--		Jim Duke's personal files.
Rhododendron schotense	Leaf	--	--		Jim Duke's personal files.
Rhododendron dauricum	Leaf	--	--		Jim Duke's personal files.
Rhododendron ledebourii	Shoot	--	--		Jim Duke's personal files.
Rhodomyrtus tomentosa	Leaf	2.0	22.0	-0.48	Jim Duke's personal files.
Rhodomyrtus tomentosa	Stem	--	10.0	0.94	Jim Duke's personal files.
Rhus typhina	Shoot	--	--		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Rhus alata	Leaf	--	50.0	-0.46	Jim Duke's personal files.
Rosa canina	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Rosmarinus officinalis	Shoot	--	12.1	-0.61	*
Rosmarinus officinalis	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Roylea elegans	Leaf	--	--		Jim Duke's personal files.
Rzedowskia tolantonguensis	Shoot	--	--		Jim Duke's personal files.
Salacia cordata	Stem	--	2.7	-0.79	Jim Duke's personal files.

Salvia officinalis	Leaf	--	15.0	-0.48	*
Salvia beckeri	Shoot	--	--		Jim Duke's personal files.
Sambucus racemosa	Bark	--	--		Jim Duke's personal files.
Sambucus nigra	Plant	--	--		*
Sambucus nigra	Bark	--	--		*
Sarracenia flava	Root	--	--		*
Sarracenia flava	Shoot	--	--		*
Saussurea lappa	Root Essent. Oil	--	--		Jim Duke's personal files.
Saussurea lappa	Root	--	--		*
Schleichera oleosa	Bark	--	--		Jim Duke's personal files.
Scirpus fluviatilis	Rhizome	--	4380.0		Jim Duke's personal files.
Scirpus tuberosus	Root	--	--		Jim Duke's personal files.
Senecio alpinus	Flower	--	--		Jim Duke's personal files.
Shorea stipularvis	Bark	--	20.0	-0.41	Jim Duke's personal files.
Shorea magistophylla	Bark	--	10.0	-0.41	Jim Duke's personal files.
Shorea affinis	Wood	--	190.0	-0.65	Jim Duke's personal files.
Shorea zeylanica	Wood	--	--		Jim Duke's personal files.
Shorea ovalifolia	Wood	--	--		Jim Duke's personal files.
Shorea dyerii	Wood	--	20.0	-1.2	Jim Duke's personal files.
Shorea trapezifolia	Wood	--	--		Jim Duke's personal files.
Shorea oblongifolia	Wood	--	--		Jim Duke's personal files.
Shorea congestiflora	Wood	--	--		Jim Duke's personal files.
Simaba obovata	Shoot	--	--		Jim Duke's personal files.
Sophora japonica	Flower	--	--		*
Sorbus americana	Leaf	--	--		Jim Duke's personal files.
Sorbus americana	Bark	--	--		Jim Duke's personal files.
Stemonoporus oblongifolius	Wood	--	--		Jim Duke's personal files.
Stemonoporus affinis	Wood	--	--		Jim Duke's personal files.
Stemonoporus reticulatus	Wood	--	--		Jim Duke's personal files.
Stemonoporus cordifolius	Wood	--	--		Jim Duke's personal files.
Stemonoporus petiolaris	Wood	--	--		Jim Duke's personal files.
Stemonoporus canaliculatus	Wood	--	--		Jim Duke's personal files.
Sterculia urens	Bark	--	50.0	-0.4	Jim Duke's personal files.
Streblus asper	Shoot	--	1000.0	2.35	Jim Duke's personal files.
Strobilanthes cusia	Root	--	--		Jim Duke's personal files.
Strobilanthes cusia	Plant	--	35.0	-0.61	Jim Duke's personal files.
Suaeda maritima	Leaf	--	--		Jim Duke's personal files.

<i>Symplocos racemosa</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Tectona grandis</i>	Stem Bark	--	--		Jim Duke's personal files.
<i>Tetracera scandens</i>	Leaf	--	300.0	-0.35	Jim Duke's personal files.
<i>Tetracera akara</i>	Leaf	--	450.0	-0.28	Jim Duke's personal files.
<i>Tetracera sarmentosa</i>	Leaf	--	700.0	-0.17	Jim Duke's personal files.
<i>Tetracera indica</i>	Leaf	--	100.0	-0.44	Jim Duke's personal files.
<i>Thevetia peruviana</i>	Plant	--	--		J.S. Glasby Dict.PIs Containing 2ndary Metabolite. 1991.
<i>Thymelaea hirsuta</i>	Leaf	--	--		Jim Duke's personal files.
<i>Tricholepis glaberrima</i>	Shoot	--	--		Jim Duke's personal files.
<i>Tricholepis glaberrima</i>	Plant	--	--		Jim Duke's personal files.
<i>Tsuga canadensis</i>	Twig	--	--		Jim Duke's personal files.
<i>Tsuga canadensis</i>	Leaf	--	--		Jim Duke's personal files.
<i>Tsuga canadensis</i>	Bark	--	--		Jim Duke's personal files.
<i>Vatica affinis</i>	Wood	--	470.0	0.27	Jim Duke's personal files.
<i>Viburnum cassinoides</i>	Bark	--	--		Jim Duke's personal files.
<i>Vicia faba</i>	Root	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Viscum articulatum</i>	Plant	--	--		Jim Duke's personal files.
<i>Viscum album</i>	Shoot	--	--		Jim Duke's personal files.
<i>Wisteria floribunda</i>	Wood	--	--		Jim Duke's personal files.
<i>Wisteria floribunda</i>	Bark	--	--		Jim Duke's personal files.
<i>Woodfordia floribunda</i>	Leaf	--	40.0	-0.47	Jim Duke's personal files.
<i>Zataria multiflora</i>	Shoot	--	--		Jim Duke's personal files.
<i>Zizyphus rugosa</i>	Stem Bark	--	50.0	-0.35	Jim Duke's personal files.
<i>Zizyphus jujuba</i>	Bark	--	--		Jim Duke's personal files.
<i>Zizyphus nummularia</i>	Stem Bark	--	90.0	-0.33	Jim Duke's personal files.
<i>Zizyphus xylopyra</i>	Stem Bark	--	70.0	-0.34	Jim Duke's personal files.
<i>Zizyphus rugosa</i>	Bark	--	--		Jim Duke's personal files.
<i>Zizyphus mauritiana</i>	Stem	--	--		Jim Duke's personal files.
<i>Zizyphus jujuba</i>	Seed	--	--		Jim Duke's personal files.
<i>Zizyphus trinervia</i>	Stem Bark	--	57.0	-0.35	Jim Duke's personal files.
<i>Zizyphus oenoplia</i>	Stem Bark	--	64.0	-0.34	Jim Duke's personal files.
<i>Zizyphus jujuba</i>	Stem Bark	--	--		Jim Duke's personal files.