

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Abelmoschus esculentus</u>	Fruit	380.0	6000.0	1.8	Duke, 1992 *
<u>Abelmoschus manihot</u>	Leaf	564.0	4862.0	0.3	Duke, 1992 *
<u>Acacia catechu</u>	Plant	not available	not available	not available	Duke, 1992 *
<u>Acacia nilotica</u>	Plant	not available	not available	not available	Duke, 1992 *
<u>Acacia senegal</u>	Plant	not available	not available	not available	Duke, 1992 *
<u>Acanthopanax gracilistylis</u>	Root Bark	not available	2840.0	1.1	Duke, 1992 *
<u>Achillea millefolium</u>	Plant	340.0	1920.0	-0.7	Duke, 1992 *
<u>Achyranthes bidentata</u>	Root	1440.0	5730.0	1.7	Duke, 1992 *
<u>Aconitum carmichaelii</u>	Tuber	not available	490.0	-0.9	Duke, 1992 *
<u>Acorus calamus</u>	Rhizome	not available	1100.0	-0.6	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<u>Actinidia chinensis</u>	Fruit	300.0	1770.0	-0.2	Duke, 1992 *
<u>Agathosma betulina</u>	Leaf	not available	2210.0	-0.7	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<u>Akebia quinata</u>	Stem	not available	840.0	-1.7	Duke, 1992 *
<u>Albizia julibrissin</u>	Bark	not available	1090.0	-0.5	Duke, 1992 *
<u>Alisma plantago-aquatica</u>	Rhizome	1410.0	1740.0	0.1	Duke, 1992 *
<u>Allium cepa</u>	Bulb	76.0	1230.0	0.7	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Allium sativum</u> var. sativum	Bulb	160.0	1210.0	0.7	Duke, 1992 *
<u>Allium schoenoprasum</u>	Leaf	355.0	6875.0	1.1	USDA's Ag Handbook 8 and sequelae)
<u>Alocasia macrorrhiza</u>	Root	520.0	1750.0	-0.4	Duke, 1992 *
<u>Aloe vera</u>	Leaf	not available	930.0	-1.2	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<u>Althaea officinalis</u>	Root	559.0	5180.0	1.4	Duke, 1992 *
<u>Amaranthus sp.</u>	Leaf	550.0	6616.0	1.0	Duke, 1992 *
<u>Amomum xanthioides</u>	Seed	not available	3540.0	0.2	Duke, 1992 *
<u>Amorphophallus campanulatus</u>	Root	220.0	3120.0	0.3	Duke, 1992 *
<u>Amorphophallus konjac</u>	Root	not available	not available	not available	Duke, 1992 *
<u>Anacardium occidentale</u>	Seed	260.0	2650.0	-0.1	Duke, 1992 *
<u>Ananas comosus</u>	Fruit	110.0	1075.0	-0.5	Duke, 1992 *
<u>Anemarrhena asphodeloides</u>	Rhizome	1130.0	1200.0	-0.5	Duke, 1992 *
<u>Anethum graveolens</u>	Fruit	2449.0	2893.0	0.4	Duke, 1992 *
<u>Anethum graveolens</u>	Plant	560.0	6470.0	0.7	Duke, 1992 *
<u>Angelica dahurica</u>	Root	not available	3.7	-1.4	Duke, 1992 *
<u>Angelica laxiflora</u>	Root	not available	1950.0	-0.3	Duke, 1992 *
<u>Angelica sinensis</u>	Root	583.0	2650.0	0.0	Duke, 1992 *
<u>Annona cherimola</u>	Fruit	200.0	1000.0	-0.5	Duke, 1992 *
<u>Annona cherimola</u>	Seed	810.0	1045.0	-0.8	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Annona muricata</u>	Fruit	210.0	2400.0	0.1	Duke, 1992 *
<u>Annona reticulata</u>	Fruit	180.0	630.0	-0.7	Duke, 1992 *
<u>Annona squamosa</u>	Fruit	210.0	785.0	-0.6	Duke, 1992 *
<u>Anthriscus cerefolium</u>	Leaf	1300.0	1400.0	-1.1	Duke, 1992 *
<u>Apium graveolens</u>	Leaf	99.0	2650.0	-0.6	USDA's Ag Handbook 8 and sequelae)
<u>Apium graveolens</u>	Root	140.0	1635.0	-0.5	ACTA AGRIC SCAND SUPPL 22: 1980
<u>Apium graveolens</u>	Seed	155.0	4903.0	0.8	Duke, 1992 *
<u>Arachis hypogaea</u>	Plant	3500.0	8700.0	1.4	Duke, 1992 *
<u>Arachis hypogaea</u>	Seed	1700.0	2110.0	-0.3	Duke, 1992 *
<u>Arctium lappa</u>	Root	1262.0	5370.0	1.5	Duke, 1992 *
<u>Arctostaphylos uva-ursi</u>	Leaf	140.0	1210.0	-1.1	Duke, 1992 *
<u>Areca catechu</u>	Seed	not available	500.0	-1.0	Duke, 1992 *
<u>Arisaema consanguineum</u>	Rhizome	not available	100.0	-1.6	Duke, 1992 *
<u>Aristolochia debilis</u>	Fruit	not available	1880.0	-0.1	Duke, 1992 *
<u>Armoracia rusticana</u>	Root	1624.0	9020.0	3.4	Duke, 1992 *
<u>Artemisia capillaris</u>	Plant	not available	1000.0	-1.0	Duke, 1992 *
<u>Artemisia dracunculus</u>	Plant	not available	3470.0	-0.2	Duke, 1992 *
<u>Artemisia herba-alba</u>	Plant	not available	2060.0	-0.6	Duke, 1992 *
<u>Artemisia vulgaris</u>	Shoot	not available	2700.0	-0.7	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Artocarpus altilis</u>	Fruit	220.0	975.0	-0.5	Duke, 1992 *
<u>Artocarpus heterophyllus</u>	Fruit	370.0	1380.0	-0.3	Duke, 1992 *
<u>Asiasarum heterotropoides</u>	Root	2520.0	2600.0	0.0	Duke, 1992 *
<u>Asiasarum sieboldii</u>	Root	2520.0	2600.0	0.0	Duke, 1992 *
<u>Asimina triloba</u>	Fruit	1090.0	5128.0	1.4	Duke, 1992 *
<u>Asparagus lucidus</u>	Root	not available	430.0	-1.1	Duke, 1992 *
<u>Asparagus officinalis</u>	Shoot	120.0	7000.0	-0.1	Duke, 1992 *
<u>Astragalus membranaceus</u>	Root	800.0	5000.0	1.3	Duke, 1992 *
<u>Atractylodes lancea</u>	Rhizome	not available	790.0	-0.9	Duke, 1992 *
<u>Atractylodes ovata</u>	Rhizome	760.0	960.0	-0.7	Duke, 1992 *
<u>Avena sativa</u>	Plant	2640.0	12000.0	2.5	Duke, 1992 *
<u>Avena sativa</u>	Seed	300.0	2900.0	0.0	Jim Duke's personal files.*
<u>Azadirachta indica</u>	Fruit	not available	4000.0	0.9	Duke, 1992 *
<u>Azadirachta indica</u>	Leaf	not available	7100.0	1.1	Duke, 1992 *
<u>Barosma betulina</u>	Leaf	not available	2210.0	-0.7	Duke, 1992 *
<u>Belamcanda chinensis</u>	Rhizome	not available	970.0	-0.7	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<u>Benincasa hispida</u>	Fruit	190.0	4870.0	1.3	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Berberis vulgaris</u>	Root	not available	1430.0	-0.6	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<u>Bertholletia excelsa</u>	Seed	1600.0	3370.0	0.2	Duke, 1992 *
<u>Beta vulgaris</u>	Root	130.0	4200.0	0.9	Duke, 1992 *
<u>Blechnum orientale</u>	Rhizome	not available	2580.0	1.0	Duke, 1992 *
<u>Bletilla striata</u>	Tuber	not available	1890.0	0.3	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<u>Borago officinalis</u>	Leaf	520.0	7436.0	1.3	USDA's Ag Handbook 8 and sequelae)
<u>Brassica chinensis</u>	Leaf	106.0	5844.0	0.7	Duke, 1992 *
<u>Brassica juncea</u>	Leaf	353.0	3837.0	-0.1	Duke, 1992 *
<u>Brassica napus var. napobrassica</u>	Root	110.0	2610.0	0.0	Duke, 1992 *
<u>Brassica nigra</u>	Leaf	132.0	2471.0	-0.6	USDA's Ag Handbook 8 and sequelae)
<u>Brassica oleracea var. botrytis L.</u>	Leaf	214.0	3072.0	-0.4	Duke, 1992 *
<u>Brassica oleracea var. gemmifera</u>	Leaf	230.0	1642.0	-1.0	USDA's Ag Handbook 8 and sequelae)
<u>Brassica oleracea var. capitata L.</u>	Leaf	100.0	2228.0	-0.7	Duke, 1992 *
<u>Brassica oleracea var. viridis L.</u>	Leaf	170.0	2786.0	-0.5	Duke, 1992 *
<u>Brassica oleracea var. sabelllica L.</u>	Leaf	340.0	2190.0	-0.7	Duke, 1992 *
<u>Brassica oleracea</u>	Stem	190.0	2110.0	-1.1	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Brassica pekinensis</u>	Leaf	2850.0	3150.0	-0.4	Duke, 1992 *
<u>Brassica rapa</u>	Root	110.0	2000.0	-0.3	Duke, 1992 *
<u>Broussonetia papyrifera</u>	Fruit	not available	4030.0	0.9	Duke, 1992 *
<u>Bupleurum chinense</u>	Root	550.0	5000.0	1.3	Duke, 1992 *
<u>Camellia sinensis</u>	Leaf	not available	2200.0	-0.7	Duke, 1992 *
<u>Canavalia ensiformis</u>	Seed	not available	2190.0	-0.3	Duke, 1992 *
<u>Capsicum annuum</u>	Fruit	604.0	2340.0	0.1	Duke, 1992 *
<u>Capsicum frutescens</u>	Fruit	230.0	2203.0	0.0	USDA's Ag Handbook 8 and sequelae)
<u>Carica papaya</u>	Fruit	110.0	815.0	-0.6	Duke, 1992 *
<u>Carthamus tinctorius</u>	Flower	260.0	1860.0	-0.7	Duke, 1992 *
<u>Carum carvi</u>	Fruit	2580.0	2863.0	0.3	Duke, 1992 *
<u>Carya glabra</u>	Shoot	144.0	24200.0	2.3	Duke, 1992 *
<u>Carya illinoensis</u>	Seed	not available	980.0	-0.8	Duke, 1992 *
<u>Carya ovata</u>	Seed	not available	900.0	-0.8	Duke, 1992 *
<u>Carya ovata</u>	Shoot	125.0	21600.0	2.0	Duke, 1992 *
<u>Cassia tora</u>	Seed	not available	3180.0	0.1	Duke, 1992 *
<u>Castanea dentata</u>	Seed	790.0	1406.0	-0.6	Duke, 1992 *
<u>Castanea mollissima</u>	Seed	820.0	1531.0	-0.6	Duke, 1992 *
<u>Castanea sativa</u>	Seed	320.0	704.0	-0.9	Duke, 1992 *
<u>Catalpa ovata</u>	Fruit	not available	1960.0	-0.1	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Caulophyllum thalictroides</u>	Root	143.0	1300.0	-0.7	Duke, 1992 *
<u>Celosia cristata</u>	Flower	not available	6080.0	2.4	Duke, 1992 *
<u>Centella asiatica</u>	Leaf	342.0	3200.0	-0.4	Duke, 1992 *
<u>Chaenomeles lagenaria</u>	Fruit	not available	990.0	-0.5	Duke, 1992 *
<u>Chamaemelum nobile</u>	Flower	not available	2920.0	0.1	Duke, 1992 *
<u>Chenopodium album</u>	Seed	not available	2920.0	0.0	Duke, 1992 *
<u>Chondrus crispus</u>	Plant	not available	19600.0	4.8	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<u>Chrysanthemum coronarium</u>	Bud	170.0	2285.0	1.0	Duke, 1992 *
<u>Chrysanthemum parthenium</u>	Plant	not available	2400.0	-0.5	Duke, 1992 *
<u>Cicer arietinum</u>	Seed	1110.0	1348.0	-0.6	USDA's Ag Handbook 8 and sequelae)
<u>Cichorium endivia</u>	Leaf	95.0	2400.0	-0.7	Duke, 1992 *
<u>Cichorium intybus</u>	Leaf	130.0	2652.0	-0.6	USDA's Ag Handbook 8 and sequelae)
<u>Cichorium intybus</u>	Root	220.0	1100.0	-0.8	Duke, 1992 *
<u>Cimicifuga dahurica</u>	Rhizome	not available	1450.0	-0.2	Duke, 1992 *
<u>Cimicifuga racemosa</u>	Root	365.0	1740.0	-0.4	Duke, 1992 *
<u>Cinnamomum aromaticum</u>	Bark	770.0	1680.0	0.0	Duke, 1992 *
<u>Cistanche salsa</u>	Plant	not available	810.0	-1.0	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Citrullus lanatus</u>	Fruit	1081.0	1500.0	-0.3	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
<u>Citrus medica</u>	Fruit	not available	950.0	-0.5	Duke, 1992 *
<u>Citrus reticulata</u>	Fruit	111.0	1416.0	-0.3	USDA's Ag Handbook 8 and sequelae)
<u>Citrus sinensis</u>	Fruit	98.0	1075.0	-0.5	Duke, 1992 *
<u>Citrus paradisi</u>	Fruit	15.0	3300.0	0.5	Duke, 1992 *
<u>Cnicus benedictus</u>	Plant	235.0	1770.0	-0.7	Duke, 1992 *
<u>Cnidium officinale</u>	Rhizome	not available	850.0	-0.8	Duke, 1992 *
<u>Cocos nucifera</u>	Seed	300.0	770.0	-0.9	Furr, A.K., et al. 1979
<u>Coix lacryma-jobi</u>	Seed	not available	1490.0	-0.6	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
<u>Colocasia esculenta</u>	Leaf	200.0	3140.0	-0.4	Duke, 1992 *
<u>Colocasia esculenta</u>	Root	200.0	1350.0	-0.6	Duke, 1992 *
<u>Coptis chinensis</u>	Rhizome	2240.0	2420.0	0.8	Duke, 1992 *
<u>Coptis japonica</u>	Rhizome	2240.0	2420.0	0.8	Duke, 1992 *
<u>Coptis spp</u>	Rhizome	2240.0	2420.0	0.8	Duke, 1992 *
<u>Corchorus olitorius</u>	Leaf	640.0	5200.0	0.4	Duke, 1992 *
<u>Coriandrum sativum</u>	Fruit	2939.0	4016.0	0.9	USDA's Ag Handbook 8 and sequelae)
<u>Coriandrum sativum</u>	Leaf	6940.0	7488.0	1.3	USDA's Ag Handbook 8 and sequelae)

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Cornus officinalis</u>	Fruit	not available	830.0	-0.6	Duke, 1992 *
<u>Corylus avellana</u>	Seed	1500.0	3156.0	0.1	Duke, 1992 *
<u>Crataegus cuneata</u>	Fruit	not available	760.0	-0.6	Duke, 1992 *
<u>Crataegus laevigata</u>	Fruit	262.0	940.0	-0.6	Duke, 1992 *
<u>Cucumis melo</u>	Fruit	92.0	3300.0	0.5	Duke, 1992 *
<u>Cucumis sativus</u>	Fruit	101.0	7000.0	2.3	Duke, 1992 *
<u>Cucurbita maxima</u>	Leaf	388.0	2752.0	-0.5	Duke, 1992 *
<u>Cucurbita pepo</u>	Flower	240.0	4950.0	1.5	USDA's Ag Handbook 8 and sequelae)
<u>Cucurbita pepo</u>	Fruit	120.0	1429.0	-0.3	USDA's Ag Handbook 8 and sequelae)
<u>Cucurbita pepo</u>	Seed	5140.0	8500.0	2.2	Duke, 1992 *
<u>Cucurbita spp</u>	Fruit	230.0	3640.0	0.7	Duke, 1992 *
<u>Cymbopogon citratus</u>	Plant	not available	3310.0	-0.2	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<u>Cynanchum atratum</u>	Root	not available	2210.0	-0.2	Duke, 1992 *
<u>Cynara cardunculus</u>	Flower	555.0	4275.0	1.1	USDA's Ag Handbook 8 and sequelae)
<u>Cyperus rotundus</u>	Rhizome	not available	1500.0	-0.1	Duke, 1992 *
<u>Cypripedium pubescens</u>	Root	not available	1090.0	-0.8	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<u>Cyrtosperma chamissonis</u>	Root	180.0	1215.0	-0.7	Duke, 1992 *
<u>Daucus carota</u>	Root	100.0	1980.0	-0.3	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Dendrobium nobile</u>	Stem	not available	520.0	-1.8	Duke, 1992 *
<u>Dioscorea alata</u>	Root	66.0	827.0	-0.9	Duke, 1992 *
<u>Dioscorea bulbifera</u>	Rhizome	not available	370.0	-1.3	Duke, 1992 *
<u>Dioscorea pentaphylla</u>	Root	94.0	792.0	-0.9	Duke, 1992 *
<u>Dioscorea sp.</u>	Root	not available	1630.0	-0.5	Duke, 1992 *
<u>Diospyros virginiana</u>	Leaf	1500.0	5000.0	0.3	Duke, 1992 *
<u>Diospyros virginiana</u>	Stem	660.0	5400.0	0.3	Duke, 1992 *
<u>Drynaria fortunei</u>	Rhizome	not available	4140.0	2.6	Duke, 1992 *
<u>Echinacea spp</u>	Root	1170.0	1860.0	-0.4	Duke, 1992 *
<u>Elytrigia repens</u>	Plant	not available	7570.0	1.1	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<u>Ephedra sinica</u>	Plant	443.0	2110.0	-0.6	Duke, 1992 *
<u>Ephedra spp</u>	Plant	not available	4780.0	0.2	Duke, 1992 *
<u>Equisetum arvense</u>	Plant	935.0	4370.0	0.1	Duke, 1992 *
<u>Equisetum hyemale</u>	Plant	not available	1010.0	-0.9	Duke, 1992 *
<u>Eriobotrya japonica</u>	Leaf	not available	2480.0	-0.6	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<u>Eriocaulon sp</u>	Leaf	not available	670.0	-1.3	Duke, 1992 *

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<u>Erythroxylum coca</u>	Leaf	2130.0	5700.0	0.6	Duke, 1992 *
<u>Erythroxylum novogranatense</u>	Leaf	3800.0	6900.0	1.1	Duke, 1992 *
<u>Erythroxylum novogranatense</u>	Leaf	5200.0	6700.0	1.0	Duke, 1992 *
<u>Eucommia ulmoides</u>	Bark	not available	2080.0	0.2	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<u>Euodia rutaecarpa</u>	Fruit	not available	4950.0	1.3	Duke, 1992 *
<u>Euphrasia officinalis</u>	Plant	641.0	4160.0	0.0	Duke, 1992 *
<u>Ficus carica</u>	Fruit	158.0	872.0	-0.6	USDA's Ag Handbook 8 and sequelae)
<u>Firmiana simplex</u>	Seed	not available	4480.0	0.6	Duke, 1992 *
<u>Foeniculum vulgare</u>	Fruit	1730.0	5012.0	1.3	Duke, 1992 *
<u>Forsythia suspensa</u>	Fruit	not available	1160.0	-0.4	Duke, 1992 *
<u>Fragaria spp</u>	Fruit	98.0	1545.0	-0.3	Duke, 1992 *
<u>Fraxinus rhynchophylla</u>	Bark	not available	2070.0	0.2	Duke, 1992 *
<u>Fritillaria thunbergii</u>	Bulb	not available	370.0	-1.4	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<u>Fucus vesiculosus</u>	Plant	1023.0	8670.0	1.4	Duke, 1992 *
<u>Gardenia jasminoides</u>	Fruit	1880.0	2170.0	0.0	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Gastrodia elata</u>	Rhizome	not available	590.0	-1.1	Duke, 1992 *
<u>Genipa americana</u>	Fruit	250.0	2900.0	0.4	Duke, 1992 *
<u>Genipa americana</u>	Seed	not available	1500.0	-0.6	Duke, 1992 *
<u>Gentiana lutea</u>	Root	603.0	2740.0	0.1	Duke, 1992 *
<u>Gentiana scabra</u>	Root	not available	1150.0	-0.8	Duke, 1992 *
<u>Geranium thunbergii</u>	Plant	not available	1660.0	-0.7	Duke, 1992 *
<u>Ginkgo biloba</u>	Seed	270.0	605.0	-0.9	USDA's Ag Handbook 8 and sequelae)
<u>Glehnia littoralis</u>	Root	not available	1650.0	-0.5	Duke, 1992 *
<u>Glycine max</u>	Seed	430.0	3160.0	0.1	Duke, 1992 *
<u>Glycyrrhiza glabra</u>	Root	1515.0	9650.0	3.8	Duke, 1992 *
<u>Glycyrrhiza uralensis</u>	Root	3690.0	5070.0	1.3	Duke, 1992 *
<u>Harpagophytum procumbens</u>	Root	1034.0	5440.0	1.5	Duke, 1992 *
<u>Helianthus annuus</u>	Seed	3540.0	5176.0	0.9	Duke, 1992 *
<u>Helianthus tuberosus</u>	Tuber	600.0	1800.0	0.2	Bonness, M. S., Promising new drugs from plants: poisons that heal, Herbarist, #56, 1990, 59-68
<u>Hibiscus sabdariffa</u>	Flower	44.0	400.0	-1.7	Duke, 1992 *
<u>Hordeum vulgare</u>	Seed	100.0	2300.0	-0.3	Jim Duke's personal files.*

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Hordeum vulgare</u>	Sprout Seedling	not available	1670.0	-0.6	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<u>Hordeum vulgare</u>	Stem	not available	2250.0	-1.1	Duke, 1992 *
<u>Houttuynia cordata</u>	Plant	not available	3430.0	-0.2	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
<u>Humulus lupulus</u>	Fruit	not available	2380.0	0.1	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<u>Hydrangea arborescens</u>	Root	567.0	1620.0	-0.5	Duke, 1992 *
<u>Hydrastis canadensis</u>	Root	814.0	2940.0	0.2	Duke, 1992 *
<u>Hyoscyamus niger</u>	Seed	not available	5250.0	0.9	Duke, 1992 *
<u>Ipomoea aquatica</u>	Leaf	510.0	3810.0	-0.1	Duke, 1992 *
<u>Ipomoea batatas</u>	Leaf	not available	620.0	-1.4	Duke, 1992 *
<u>Ipomoea batatas</u>	Root	95.0	710.0	-1.0	Duke, 1992 *
<u>Isatis tinctoria</u>	Root	not available	4410.0	1.0	Duke, 1992 *
<u>Juglans cinerea</u>	Seed	2212.0	2676.0	-0.1	Duke, 1992 *
<u>Juglans nigra</u>	Fruit	not available	440.0	-0.8	Duke, 1992 *
<u>Juglans nigra</u>	Seed	1795.0	2155.0	-0.3	Duke, 1992 *
<u>Juglans regia</u>	Seed	1310.0	1945.0	-0.4	Duke, 1992 *
<u>Juncus effusus</u>	Pith	not available	920.0	-1.0	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Juniperus communis</u>	Fruit	9.0	30.0	-1.0	Duke, 1992 *
<u>Juniperus virginiana</u>	Shoot	266.0	8800.0	0.2	Duke, 1992 *
<u>Jussiaea repens</u>	Plant	not available	3590.0	-0.1	Duke, 1992 *
<u>Lablab purpureus</u>	Seed	400.0	5505.0	1.0	Duke, 1992 *
<u>Lactuca sativa</u>	Leaf	110.0	8700.0	1.8	Duke, 1992 *
<u>Lagenaria siceraria</u>	Fruit	110.0	2465.0	0.2	Duke, 1992 *
<u>Lantana camara</u>	Fruit	not available	1460.0	-0.3	Duke, 1992 *
<u>Larrea tridentata</u>	Plant	566.0	1720.0	-0.7	Duke, 1992 *
<u>Lens culinaris</u>	Seed	765.0	1280.0	-0.7	Duke, 1992 *
<u>Lens culinaris</u>	Sprout Seedling	345.0	1323.0	-1.3	USDA's Ag Handbook 8 and sequelae)
<u>Ligustrum japonicum</u>	Fruit	not available	1020.0	-0.5	Duke, 1992 *
<u>Ligustrum lucidum</u>	Fruit	not available	1020.0	-0.5	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<u>Linum usitatissimum</u>	Hay	not available	3100.0	-1.0	Duke, 1992 *
<u>Linum usitatissimum</u>	Seed	3715.0	7002.0	1.6	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<u>Liquidambar styraciflua</u>	Leaf	280.0	5740.0	0.6	Duke, 1992 *
<u>Liquidambar styraciflua</u>	Stem	200.0	8400.0	1.5	Duke, 1992 *
<u>Lobelia inflata</u>	Leaf	183.0	1620.0	-1.0	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Lonicera japonica</u>	Flower	not available	2990.0	0.1	Duke, 1992 *
<u>Lophatherum gracile</u>	Plant	not available	2490.0	-0.5	Duke, 1992 *
<u>Luffa aegyptiaca</u>	Fruit	140.0	2800.0	0.3	Duke, 1992 *
<u>Lupinus albus</u>	Seed	1980.0	2200.0	-0.3	Duke, 1992 *
<u>Lycium chinense</u>	Fruit	not available	1060.0	-0.5	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<u>Lycium chinense</u>	Root Bark	not available	2610.0	0.8	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<u>Lycopersicon esculentum</u>	Fruit	70.0	6000.0	1.8	Duke, 1992 *
<u>Lycopersicon esculentum</u>	Leaf	not available	4300.0	0.1	Duke, 1992 *
<u>Lycopodium clavatum</u>	Plant	not available	2340.0	-0.5	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<u>Lygodium japonicum</u>	Pollen Or Spore	not available	2270.0	not available	Duke, 1992 *
<u>Macadamia spp</u>	Seed	1160.0	1190.0	-0.7	USDA's Ag Handbook 8 and sequelae)
<u>Magnolia denudata</u>	Flower	not available	2120.0	-0.5	Duke, 1992 *
<u>Magnolia fargesii</u>	Flower	not available	2120.0	-0.5	Duke, 1992 *
<u>Magnolia kobus</u>	Flower	not available	2120.0	-0.5	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Magnolia officinalis</u>	Bark	not available	690.0	-0.7	Duke, 1992 *
<u>Malpighia glabra</u>	Fruit	180.0	2095.0	0.0	Duke, 1992 *
<u>Malus domestica</u>	Fruit	48.0	478.0	-0.8	Duke, 1992 *
<u>Mangifera indica</u>	Fruit	84.0	875.0	-0.6	Duke, 1992 *
<u>Manihot esculenta</u>	Root	290.0	2100.0	-0.2	Duke, 1992 *
<u>Medicago sativa</u>	Plant	432.0	2300.0	-0.5	Duke, 1992 *
<u>Mentha arvensis var. piperascens</u>	Plant	not available	2830.0	-0.4	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
<u>Mentha pulegium</u>	Plant	not available	5500.0	0.4	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<u>Mentha x piperita</u>	Leaf	985.0	6610.0	1.0	Duke, 1992 *
<u>Momordica charantia</u>	Fruit	195.0	3800.0	0.8	=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
<u>Morinda sp</u>	Root	not available	1200.0	-0.7	Duke, 1992 *
<u>Morus alba</u>	Root Bark	2310.0	2450.0	0.6	Duke, 1992 *
<u>Musa x paradisiaca</u>	Fruit	355.0	1118.0	-0.5	Duke, 1992 *
<u>Murraya sp</u>	Fruit	355.0	1118.0	-0.5	Duke, 1992 *
<u>Myrica cerifera</u>	Bark	107.0	490.0	-0.9	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Myristica fragrans</u>	Aril	not available	1630.0	not available	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
<u>Myristica fragrans</u>	Seed	1830.0	2030.0	-0.4	Duke, 1992 *
<u>Nardostachys chinensis</u>	Rhizome	not available	2590.0	1.0	Duke, 1992 *
<u>Nasturtium officinale</u>	Herb	210.0	4200.0	-0.7	USDA's Ag Handbook 8 and sequelae)
<u>Nelumbo nucifera</u>	Rhizome	200.0	1215.0	-0.4	Duke, 1992 *
<u>Nelumbo nucifera</u>	Seed	560.0	2650.0	-0.1	Duke, 1992 *
<u>Nepeta cataria</u>	Plant	248.0	2070.0	-0.6	Duke, 1992 *
<u>Notopterygium incisum</u>	Rhizome	not available	2980.0	1.4	Duke, 1992 *
<u>Nyssa sylvatica</u>	Leaf	500.0	9100.0	1.9	Duke, 1992 *
<u>Nyssa sylvatica</u>	Stem	300.0	4400.0	-0.2	Duke, 1992 *
<u>Ocimum basilicum</u>	Leaf	4100.0	4340.0	0.1	USDA's Ag Handbook 8 and sequelae)
<u>Oenothera biennis</u>	Herb	2700.0	3900.0	-0.7	Duke, 1992 *
<u>Oenothera biennis</u>	Seed	4300.0	5300.0	0.9	Duke, 1992 *
<u>Ophiopogon japonicus</u>	Tuber	390.0	410.0	-0.9	Duke, 1992 *
<u>Opuntia ficus-indica</u>	Bud	not available	1420.0	-1.0	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
<u>Opuntia ficus-indica</u>	Seed	not available	790.0	-0.9	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
<u>Origanum majorana</u>	Plant	3300.0	3900.0	-0.1	USDA's Ag Handbook 8 and sequelae)

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Oryza sativa</u>	Plant	1100.0	2200.0	-0.6	Duke, 1992 *
<u>Pachyrhizus erosus</u>	Tuber	160.0	1475.0	-0.1	Duke, 1992 *
<u>Paeonia lactiflora</u>	Root	580.0	990.0	-0.8	Duke, 1992 *
<u>Paeonia moutan</u>	Root Bark	930.0	1180.0	-1.2	Duke, 1992 *
<u>Paeonia suffruticosa</u>	Root Bark	930.0	1180.0	-1.2	Duke, 1992 *
<u>Panax ginseng</u>	Root	102.0	481.0	-1.1	Duke, 1992 *
<u>Panax japonicus</u>	Rhizome	not available	2400.0	0.8	Duke, 1992 *
<u>Panax quinquefolius</u>	Plant	980.0	2200.0	-0.6	Duke, 1992 *
<u>Papaver somniferum</u>	Seed	3148.0	15600.0	5.0	Duke, 1992 *
<u>Pastinaca sativa</u>	Root	230.0	2100.0	-0.2	Duke, 1992 *
<u>Perideridia gairdneri</u>	Root	not available	500.0	-1.1	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
<u>Perilla frutescens</u>	Plant	not available	3830.0	-0.1	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
<u>Persea americana</u>	Fruit	370.0	1740.0	-0.2	Duke, 1992 *
<u>Petasites japonicus</u>	Pt	140.0	2545.0	1.0	USDA's Ag Handbook 8 and sequelae)
<u>Petroselinum crispum</u>	Plant	250.0	3160.0	-0.3	Duke, 1992 *
<u>Phaseolus coccineus</u>	Seed	not available	1780.0	-0.5	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Phaseolus lunatus</u>	Seed	580.0	7000.0	1.6	Duke, 1992 *
<u>Phaseolus vulgaris</u>	Fruit	210.0	18000.0	7.3	Duke, 1992 *
<u>Phaseolus vulgaris</u>	Seed	510.0	3430.0	0.2	Duke, 1992 *
<u>Phaseolus vulgaris</u>	Sprout Seedling	210.0	2258.0	0.6	USDA's Ag Handbook 8 and sequelae)
<u>Phellodendron amurense</u>	Bark	not available	650.0	-0.8	Duke, 1992 *
<u>Phoenix dactylifera</u>	Fruit	325.0	790.0	-0.6	Duke, 1992 *
<u>Phyllanthus emblica</u>	Fruit	118.0	584.0	-0.7	Duke, 1992 *
<u>Physalis ixocarpa</u>	Fruit	230.0	2150.0	0.0	Duke, 1992 *
<u>Physalis peruviana</u>	Fruit	310.0	1810.0	-0.1	Duke, 1992 *
<u>Pimenta dioica</u>	Fruit	1200.0	1480.0	-0.3	Duke, 1992 *
<u>Pimpinella anisum</u>	Fruit	not available	1878.0	-0.1	Duke, 1992 *
<u>Pinellia ternata</u>	Tuber	560.0	710.0	-0.7	Duke, 1992 *
<u>Pinus echinata</u>	Shoot	255.0	2100.0	-0.7	Duke, 1992 *
<u>Piper nigrum</u>	Fruit	1809.0	2319.0	0.1	USDA's Ag Handbook 8 and sequelae)
<u>Pistacia vera</u>	Seed	949.0	1644.0	-0.5	Duke, 1992 *
<u>Pisum sativum</u>	Fruit	218.0	2591.0	0.2	Duke, 1992 *
<u>Pisum sativum</u>	Plant	2200.0	3700.0	-0.1	Duke, 1992 *
<u>Pisum sativum</u>	Seed	319.0	1700.0	-0.5	Duke, 1992 *
<u>Plantago asiatica</u>	Plant	not available	5320.0	0.4	Duke, 1992 *
<u>Plantago psyllium</u>	Seed	111.0	510.0	-1.0	Duke, 1992 *
<u>Platycodon grandiflorum</u>	Root	1250.0	1510.0	-0.6	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Polygala tenuifolia</u>	Root	not available	960.0	-0.9	Duke, 1992 *
<u>Polygonum multiflorum</u>	Rhizome	not available	890.0	-0.8	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<u>Polygonum multiflorum</u>	Root	not available	2340.0	-0.1	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<u>Portulaca oleracea</u>	Herb	670.0	18700.0	1.4	Duke, 1992 *
<u>Prunella vulgaris</u>	Flower	not available	4560.0	1.3	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<u>Prunus armeniaca</u>	Fruit	76.0	615.0	-0.7	USDA's Ag Handbook 8 and sequelae)
<u>Prunus armeniaca</u>	Seed	not available	1750.0	-0.5	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
<u>Prunus cerasus</u>	Fruit	90.0	648.0	-0.7	Duke, 1992 *
<u>Prunus domestica</u>	Fruit	68.0	3400.0	0.6	Duke, 1992 *
<u>Prunus dulcis</u>	Seed	2297.0	3126.0	0.1	USDA's Ag Handbook 8 and sequelae)
<u>Prunus persica</u>	Bark	not available	4220.0	1.7	Duke, 1992 *
<u>Prunus persica</u>	Fruit	68.0	850.0	-0.6	Duke, 1992 *
<u>Prunus persica</u>	Seed	not available	3810.0	0.3	Duke, 1992 *
<u>Prunus serotina</u>	Leaf	435.0	9600.0	2.1	Duke, 1992 *
<u>Prunus serotina</u>	Stem	28.0	5400.0	0.3	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u><i>Psidium cattleianum</i></u>	Fruit	170.0	880.0	-0.6	Duke, 1992 *
<u><i>Psidium guajava</i></u>	Fruit	98.0	735.0	-0.6	USDA's Ag Handbook 8 and sequelae)
<u><i>Psophocarpus tetragonolobus</i></u>	Leaf	80.0	346.0	-1.5	Duke, 1992 *
<u><i>Psophocarpus tetragonolobus</i></u>	Seed	340.0	2623.0	-0.1	Duke, 1992 *
<u><i>Psoralea esculenta</i></u>	Root	not available	1400.0	-0.6	Izadoost, M. & Robinson, T., Synergism & antagonism in the pharmacology of alkaloidal plants, pp 137-58 in Craker, L. & Simon, J., eds., Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture & Pharmacology, v. 2, 1987, 255pp.
<u><i>Pueraria montana</i></u>	Shoot	800.0	850.0	-0.9	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<u><i>Pueraria pseudohirsuta</i></u>	Root	1470.0	3690.0	0.6	Duke, 1992 *
<u><i>Pulsatilla chinensis</i></u>	Root	not available	3190.0	0.3	Duke, 1992 *
<u><i>Punica granatum</i></u>	Fruit	not available	120.0	-0.9	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<u><i>Pyrus communis</i></u>	Fruit	54.0	1110.0	-0.5	Duke, 1992 *
<u><i>Quercus alba</i></u>	Bark	37.0	160.0	-1.1	Duke, 1992 *
<u><i>Quercus alba</i></u>	Stem	100.0	5320.0	0.2	Duke, 1992 *
<u><i>Quercus phellos</i></u>	Stem	210.0	2940.0	-0.8	Duke, 1992 *
<u><i>Quercus rubra</i></u>	Seed	not available	500.0	-1.0	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Quercus rubra</u>	Stem	200.0	8580.0	1.6	Duke, 1992 *
<u>Quercus stellata</u>	Stem	175.0	5880.0	0.5	Duke, 1992 *
<u>Quercus velutina</u>	Stem	235.0	6820.0	0.9	Duke, 1992 *
<u>Quisqualis indica</u>	Fruit	not available	1040.0	-0.5	Duke, 1992 *
<u>Raphanus sativus</u>	Root	85.0	3570.0	0.5	Duke, 1992 *
<u>Raphanus sativus</u>	Seed	not available	3960.0	0.4	Duke, 1992 *
<u>Rehmannia glutinosa</u>	Root	not available	1190.0	-0.7	Duke, 1992 *
<u>Frangula purshiana</u>	Bark	440.0	1590.0	-0.1	Duke, 1992 *
<u>Rheum palmatum</u>	Rhizome	1980.0	2560.0	0.9	Duke, 1992 *
<u>Rheum rhabarbarum</u>	Pt	90.0	1975.0	-1.0	Duke, 1992 *
<u>Rhizophora mangle</u>	Leaf	not available	8800.0	1.8	Duke, 1992 *
<u>Rhodymenia palmata</u>	Plant	not available	5930.0	0.6	Duke, 1992 *
<u>Rhus copallina</u>	Leaf	405.0	9600.0	2.1	Duke, 1992 *
<u>Rhus copallina</u>	Stem	375.0	4270.0	-0.2	Duke, 1992 *
<u>Rhus glabra</u>	Stem	147.0	4690.0	0.0	Duke, 1992 *
<u>Ribes nigrum</u>	Fruit	220.0	1720.0	-0.2	Duke, 1992 *
<u>Ribes rubrum</u>	Fruit	122.0	935.0	-0.6	Duke, 1992 *
<u>Ribes uva-crispa</u>	Fruit	86.0	938.0	-0.6	Duke, 1992 *
<u>Rosa canina</u>	Fruit	260.0	1390.0	-0.3	Duke, 1992 *
<u>Rosa laevigata</u>	Fruit	not available	2830.0	0.3	Duke, 1992 *
<u>Rosmarinus officinalis</u>	Plant	2142.0	2483.0	-0.5	USDA's Ag Handbook 8 and sequelae)

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Rubia cordifolia</u>	Root	not available	1870.0	-0.4	Duke, 1992 *
<u>Rubus chamaemorus</u>	Fruit	270.0	1875.0	-0.1	Duke, 1992 *
<u>Rubus chingii</u>	Fruit	not available	2740.0	0.3	Duke, 1992 *
<u>Rubus idaeus</u>	Leaf	539.0	3190.0	-0.4	Duke, 1992 *
<u>Rumex acetosa</u>	Leaf	460.0	4600.0	0.2	Duke, 1992 *
<u>Rumex crispus</u>	Root	822.0	3200.0	0.3	Duke, 1992 *
<u>Ruscus aculeatus</u>	Root	707.0	2340.0	-0.1	Duke, 1992 *
<u>Salix alba</u>	Bark	941.0	5600.0	2.6	Duke, 1992 *
<u>Salvia miltiorrhiza</u>	Root	not available	3230.0	0.4	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<u>Salvia officinalis</u>	Leaf	444.0	2830.0	-0.5	Duke, 1992 *
<u>Sassafras albidum</u>	Leaf	990.0	6800.0	1.0	Duke, 1992 *
<u>Sassafras albidum</u>	Stem	77.0	4760.0	0.0	Duke, 1992 *
<u>Schisandra chinensis</u>	Fruit	414.0	2760.0	0.3	Duke, 1992 *
<u>Schizonepeta tenuifolia</u>	Plant	not available	3390.0	-0.2	Duke, 1992 *
<u>Scrophularia buergeriana</u>	Root	not available	2060.0	-0.3	Duke, 1992 *
<u>Scutellaria baicalensis</u>	Root	7170.0	7220.0	2.5	Duke, 1992 *
<u>Scutellaria lateriflora</u>	Plant	155.0	1130.0	-0.9	Duke, 1992 *
<u>Sechium edule</u>	Fruit	140.0	2000.0	-0.1	Duke, 1992 *
<u>Sechium edule</u>	Leaf	670.0	3785.0	-0.1	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Senna obtusifolia</u>	Seed	2820.0	3220.0	0.1	Duke, 1992 *
<u>Senna occidentalis</u>	Seed	not available	2880.0	0.0	Duke, 1992 *
<u>Sesamum indicum</u>	Seed	3052.0	4082.0	0.4	USDA's Ag Handbook 8 and sequelae)
<u>Siegesbeckia orientalis</u>	Plant	not available	2660.0	-0.4	Duke, 1992 *
<u>Silybum marianum</u>	Plant	not available	4030.0	0.0	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<u>Simmondsia chinensis</u>	Seed	not available	1410.0	-0.6	Duke, 1992 *
<u>Sinapis alba</u>	Seed	2863.0	3282.0	0.1	Duke, 1992 *
<u>Sinomenium acutum</u>	Rhizome	not available	360.0	-1.3	Duke, 1992 *
<u>Smilax spp</u>	Root	351.0	1670.0	-0.5	Duke, 1992 *
<u>Solanum melongena</u>	Fruit	85.0	1563.0	-0.3	Duke, 1992 *
<u>Solanum tuberosum</u>	Tuber	190.0	4250.0	2.2	Duke, 1992 *
<u>Sophora angustifolia</u>	Root	2140.0	3720.0	0.6	Duke, 1992 *
<u>Sophora subprostrata</u>	Root	not available	1880.0	-0.4	Duke, 1992 *
<u>Sorbus aucubaria</u>	Fruit	190.0	1190.0	-0.4	Duke, 1992 *
<u>Spinacia oleracea</u>	Plant	420.0	11000.0	2.2	Duke, 1992 *
<u>Spirulina pratensis</u>	Plant	not available	2550.0	-0.5	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<u>Spondias dulcis</u>	Fruit	48.0	240.0	-0.9	Duke, 1992 *
<u>Spondias dulcis</u>	Seed	not available	1200.0	-0.7	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Spondias tuberosa</u>	Fruit	not available	90.0	-0.9	Duke, 1992 *
<u>Stellaria media</u>	Plant	439.0	5290.0	0.4	Duke, 1992 *
<u>Stevia rebaudiana</u>	Leaf	not available	3490.0	-0.2	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<u>Syphoricarpos orbiculatus</u>	Stem	380.0	8800.0	1.7	Duke, 1992 *
<u>Symphytum officinale</u>	Root	not available	1700.0	-0.5	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<u>Syzygium aromaticum</u>	Flower	2640.0	3020.0	0.2	Duke, 1992 *
<u>Tabebuia heptaphylla</u>	Bark	145.0	810.0	-0.6	Duke, 1992 *
<u>Tamarindus indica</u>	Fruit	920.0	1341.0	-0.4	USDA's Ag Handbook 8 and sequelae)
<u>Tamarindus indica</u>	Leaf	not available	710.0	-1.3	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<u>Taraxacum mongolicum</u>	Plant	not available	4050.0	0.0	Duke, 1992 *
<u>Taraxacum officinale</u>	Leaf	360.0	2500.0	-0.6	Duke, 1992 *
<u>Taraxacum officinale</u>	Root	225.0	1570.0	-0.5	Duke, 1992 *
<u>Tephrosia purpurea</u>	Leaf	not available	10300.0	2.4	Duke, 1992 *
<u>Tetragonia tetragonoides</u>	Leaf	390.0	6500.0	0.9	Duke, 1992 *
<u>Tetrapanax papyrifera</u>	Pith	not available	2120.0	1.0	Duke, 1992 *
<u>Thymus vulgaris</u>	Leaf	733.0	4360.0	0.1	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Thymus vulgaris</u>	Plant	1630.0	2992.0	-0.3	USDA's Ag Handbook 8 and sequelae)
<u>Tragopogon porrifolius</u>	Root	140.0	1000.0	-0.8	Duke, 1992 *
<u>Trichosanthes anguina</u>	Fruit	530.0	9815.0	3.6	Duke, 1992 *
<u>Trifolium pratense</u>	Flower	628.0	3490.0	0.5	Duke, 1992 *
<u>Trifolium pratense</u>	Hay	2400.0	8100.0	1.0	Duke, 1992 *
<u>Trigonella foenum-graecum</u>	Seed	157.0	1210.0	-0.7	Duke, 1992 *
<u>Triticum aestivum</u>	Plant	300.0	7000.0	0.9	Duke, 1992 *
<u>Triticum aestivum</u>	Seed	530.0	3500.0	0.2	Duke, 1992 *
<u>Turnera diffusa</u>	Leaf	428.0	2040.0	-0.8	Duke, 1992 *
<u>Tussilago farfara</u>	Flower	not available	1080.0	-1.3	Duke, 1992 *
<u>Ulmus rubra</u>	Bark	95.0	580.0	-0.8	Duke, 1992 *
<u>Urtica dioica</u>	Leaf	1720.0	8600.0	1.7	Duke, 1992 *
<u>Vaccinium corymbosum</u>	Fruit	48.0	332.0	-0.8	Duke, 1992 *
<u>Vaccinium macrocarpon</u>	Fruit	240.0	2000.0	-0.1	Duke, 1992 *
<u>Vaccinium myrtillus</u>	Fruit	312.0	3900.0	0.8	Duke, 1992 *
<u>Vaccinium vitis-idaea</u>	Fruit	80.0	600.0	-0.7	Duke, 1992 *
<u>Valeriana officinalis</u>	Root	375.0	3180.0	0.3	Duke, 1992 *
<u>Valerianella locusta</u>	Plant	3773.0	3798.0	-0.1	Duke, 1992 *
<u>Verbascum thapsus</u>	Leaf	1421.0	3230.0	-0.3	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Viburnum opulus</u>	Bark	not available	3110.0	0.9	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<u>Vicia faba</u>	Fruit	330.0	2260.0	0.1	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<u>Vicia faba</u>	Seed	380.0	2000.0	-0.4	USDA's Ag Handbook 8 and sequelae)
<u>Vigna aconitifolia</u>	Seed	2250.0	4962.0	0.8	Duke, 1992 *
<u>Vigna angularis</u>	Seed	1270.0	1467.0	-0.6	Duke, 1992 *
<u>Vigna mungo</u>	Seed	1850.0	2076.0	-0.3	Duke, 1992 *
<u>Vigna radiata</u>	Seed	1777.0	2203.0	-0.3	USDA's Ag Handbook 8 and sequelae)
<u>Vigna radiata</u>	Sprout Seedling	176.0	2560.0	1.3	USDA's Ag Handbook 8 and sequelae)
<u>Vigna unguiculata</u>	Fruit	374.0	4160.0	0.9	USDA's Ag Handbook 8 and sequelae)
<u>Vigna unguiculata</u>	Seed	3141.0	3952.0	0.4	USDA's Ag Handbook 8 and sequelae)
<u>Viscum album</u>	Leaf	not available	3110.0	-0.4	Duke, 1992 *
<u>Vitis vinifera</u>	Fruit	58.0	2310.0	0.1	Duke, 1992 *
<u>Vitis vinifera</u>	Stem	not available	4360.0	-0.2	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<u>Xanthosoma sagittifolium</u>	Leaf	510.0	3170.0	-0.4	Duke, 1992 *
<u>Xanthosoma sagittifolium</u>	Root	270.0	2100.0	-0.2	Duke, 1992 *
<u>Yucca baccata</u>	Root	106.0	510.0	-1.1	Duke, 1992 *
<u>Zea mays</u>	Seed	100.0	1600.0	-0.5	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Zea mays</u>	Silk Stigma Style	not available	1790.0	not available	Duke, 1992 *
<u>Zingiber officinale</u>	Rhizome	430.0	2690.0	1.1	Duke, 1992 *
<u>Zizyphus jujuba</u>	Fruit	not available	620.0	-0.7	Duke, 1992 *
<u>Secale cereale</u>	Seed	1185.0	1740.0	-0.5	USDA's Ag Handbook 8 and sequelae)
<u>Phytelephas aequatorialis</u>	Flower	440.0	1505.0	-0.9	KOZIOL & PEDERSEN. 1993. PHYTELEPHAS AEQUATORIALIS(ARECACEAE) IN HUMAN AND ANIMAL NUTRITION. ECON. BOT. 47:401-307.
<u>Phytelephas aequatorialis</u>	Mesocarp	320.0	1005.0	not available	KOZIOL & PEDERSEN. 1993. PHYTELEPHAS AEQUATORIALIS(ARECACEAE) IN HUMAN AND ANIMAL NUTRITION. ECON. BOT. 47:401-307.
<u>Elaeagnus umbellatus</u>	Fruit	170.0	1010.0	-0.5	Duke, 1992 *
<u>Averrhoa carambola</u>	Fruit	80.0	1200.0	-0.4	Duke, 1992 *
<u>Feijoa sellowiana</u>	Fruit	80.0	500.0	-0.8	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<u>Syzygium cumini</u>	Fruit	350.0	2145.0	0.0	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<u>Syzygium jambos</u>	Fruit	40.0	260.0	-0.9	Morton, J.F., Major Medicinal Plants. 1977. Atlas of Medicinal Plants of Middle America. Bahamas to Yucatan. 1981.
<u>Valerianella radicata</u>	Plant	2940.0	3226.0	-0.3	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Amphicarpa bracteata</u>	Shoot	not available	4100.0	-0.5	Duke, 1992 *
<u>Eupatorium odoratum</u>	Leaf	not available	3200.0	-0.4	Tramil
<u>Chamissoa altissima</u>	Leaf	70.0	715.0	-1.3	Tramil
<u>Panicum maximum</u>	Leaf	not available	4500.0	0.1	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<u>Moringa oleifera</u>	Fruit	450.0	3815.0	0.8	USDA's Ag Handbook 8 and sequelae)
<u>Moringa oleifera</u>	Shoot	1470.0	6890.0	-0.1	USDA's Ag Handbook 8 and sequelae)
<u>Pinus edulis</u>	Seed	2180.0	2650.0	-0.1	USDA's Ag Handbook 8 and sequelae)
<u>Brassica oleracea var. botrytis l.</u>	Flower	115.0	2250.0	-0.4	Duke, 1992 *
<u>Citrus aurantium</u>	Fruit	800.0	1730.0	-0.2	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
<u>Vigna unguiculata</u>	Shoot	430.0	4207.0	-0.5	Duke, 1992 *
<u>Origanum vulgare</u>	Plant	2600.0	3016.0	-0.3	USDA's Ag Handbook 8 and sequelae)
<u>Carum carvi</u>	Seed	2070.0	2950.0	0.0	Duke, 1992 *
<u>Foeniculum vulgare</u>	Seed	394.0	3650.0	0.3	Duke, 1992 *
<u>Stevia rebaudiana</u>	Plant	not available	2890.0	-0.4	Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.
<u>Pimpinella anisum</u>	Seed	not available	1878.0	-0.4	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Rosmarinus officinalis</u>	Leaf	910.0	2825.0	-0.5	USDA's Ag Handbook 8 and sequelae)
<u>Zingiber officinale</u>	Root	188.0	2690.0	0.1	Duke, 1992 *
<u>Juglans nigra</u>	Pericarp	53.0	440.0	not available	Duke, 1992 *
<u>Sambucus nigra</u>	Fruit	265.0	1635.0	-0.2	Duke, 1992 *
<u>Phaseolus acutifolius</u>	Seed	1500.0	1865.0	-0.4	Duke, 1992 *
<u>Allium sativum var. sativum</u>	Root	448.0	1210.0	-0.7	Duke, 1992 *
<u>Aloe spp.</u>	Leaf	5.0	930.0	-1.2	Duke, 1992 *
<u>Apium graveolens</u>	Fruit	153.0	730.0	-0.6	Duke, 1992 *
<u>Asparagus officinalis</u>	Root	240.0	2400.0	-0.1	Duke, 1992 *
<u>Berberis vulgaris</u>	Bark	not available	1430.0	-0.2	Duke, 1992 *
<u>Senna alexandrina</u>	Leaf	1577.0	7770.0	1.4	Duke, 1992 *
<u>Chrysanthemum parthenium</u>	Leaf	432.0	2400.0	-0.7	Duke, 1992 *
<u>Mentha spicata</u>	Leaf	630.0	4360.0	0.1	USDA's Ag Handbook 8 and sequelae)
<u>Curcuma longa</u>	Plant	3038.0	9800.0	1.8	Duke, 1992 *
<u>Dioscorea villosa</u>	Root	391.0	1630.0	-0.5	Duke, 1992 *
<u>Echinacea purpurea</u>	Root	467.0	1860.0	-0.4	Duke, 1992 *
<u>Eleutherococcus senticosus</u>	Root	1050.0	5000.0	1.3	Duke, 1992 *
<u>Eriodictyon californicum</u>	Leaf	2156.0	9800.0	2.2	Duke, 1992 *
<u>Eupatorium perfoliatum</u>	Plant	540.0	6000.0	0.6	Duke, 1992 *
<u>Ginkgo biloba</u>	Leaf	240.0	1000.0	-1.2	Duke, 1992 *

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Gymnema sylvestre</u>	Leaf	201.0	1060.0	-1.2	Duke, 1992 *
<u>Humulus lupulus</u>	Flower	443.0	2380.0	-0.3	Duke, 1992 *
<u>Inula helenium</u>	Root	1650.0	7500.0	2.6	Duke, 1992 *
<u>Parthenium integrifolium</u>	Root	320.0	2000.0	-0.3	Duke, 1992 *
<u>Passiflora incarnata</u>	Flower	275.0	2500.0	-0.2	Duke, 1992 *
<u>Plantago major</u>	Seed	318.0	1060.0	-0.7	Duke, 1992 *
<u>Serenoa repens</u>	Fruit	510.0	3930.0	0.8	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<u>Silybum marianum</u>	Leaf	887.0	4030.0	0.0	Duke, 1992 *
<u>Smilax officinalis</u>	Root	351.0	1670.0	-0.5	Duke, 1992 *
<u>Spirulina spp.</u>	Plant	not available	2550.0	-0.5	Duke, 1992 *
<u>Stachys officinalis</u>	Plant	185.0	1100.0	-0.9	Duke, 1992 *
<u>Symphytum officinale</u>	Leaf	77.0	700.0	-1.3	Duke, 1992 *
<u>Crataegus rhipidophylla</u>	Fruit	not available	940.0	-0.6	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<u>Anethum graveolens</u>	Seed	2449.0	2893.0	0.0	USDA's Ag Handbook 8 and sequelae)
<u>Rubus idaeus</u>	Fruit	175.0	1400.0	-0.3	Revised USDA data received 1993.
<u>Syzygium aromaticum</u>	Fruit	2640.0	3020.0	0.4	Duke, 1992 *
<u>Tanacetum parthenium</u>	Plant	not available	2400.0	-0.5	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Plant Name	Plant Part	Low Parts Per Million	High Parts Per Million	Standard Deviation	Reference
<u>Santalum acuminatum</u>	Fruit	400.0	1715.0	-0.2	Duke, 1992 *
<u>Brassica rapa</u>	Leaf	106.0	5844.0	0.7	USDA's Ag Handbook 8 and sequelae)
<u>Aspalathus linearis</u>	Shoot	not available	3300.0	-0.6	Duke, 1992 *
<u>Aspalathus linearis</u>	Plant	not available	140.0	-1.2	Duke, 1992 *
<u>Brassica oleracea</u> var. <i>italica</i>	Leaf	214.0	3072.0	-0.4	USDA's Ag Handbook 8 and sequelae)
<u>Aspalathus linearis</u>	Leaf	not available	not available	not available	Duke, 1992 *
<u>Actaea dahurica</u>	Rhizome	not available	1450.0	-0.2	Suzuki, A., Morimoto, I., and Okitsu, T., Elution of Metals from Crude Drugs, Shoykugaku Zasshi 36(3):190-195.
<u>Actaea racemosa</u>	Root	not available	1740.0	-0.4	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<u>Vigna unguiculata</u>	Seed	389.0	14400.0	4.5	Duke, 1992 *
<u>Vigna unguiculata</u>	Shoot	430.0	4207.0	-0.5	USDA's Ag Handbook 8 and sequelae)
<u>Urtica dioica</u>	Fruit Juice	not available	not available	not available	Jim Duke's personal files.
<u>Aframomum melegueta</u>	Fruit	not available	1500.0	-0.3	Wealth of India.
<u>Commiphora wightii</u>	Inflorescence	not available	not available	not available	Jim Duke's personal files.