

# List of Plants



Chemid

NICKEL

\*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
Allium cepa	Bulb	0.05	2.5	1.0	*
Allium sativum var. sativum	Bulb	0.1	1.7	-1.0	*
Allium cepa	Seed	0.03	4.0	-0.14	*
Anacardium occidentale	Seed	--	5.0	0.05	*
Anethum graveolens	Plant	0.1	4.7	-0.99	ACTA AGRIC SCAND SUPPL 22: 1980
Apium graveolens	Root	0.04	0.9	-0.66	ACTA AGRIC SCAND SUPPL 22: 1980
Armoracia rusticana	Root	0.2	1.2	-0.5	ACTA AGRIC SCAND SUPPL 22: 1980
Artemisia vulgaris	Plant	--	--		Chem. & Pharm. Bull. 38: 2205.
Asparagus officinalis	Shoot	0.9	1.8	-1.05	*
Bertholletia excelsa	Seed	--	5.8	0.2	Furr, A.K., et al. 1979
Beta vulgaris	Root	--	2.5	0.24	*
Boehmeria nivea	Plant	--	--		*
Brassica rapa	Root	0.01	0.1	-1.11	*
Brassica oleracea var. capitata l.	Leaf	0.02	8.7	-0.25	*
Brassica oleracea var. italica	Leaf	0.3	7.0	-0.28	ACTA AGRIC SCAND SUPPL 22: 1980
Brassica rapa	Seed	1.0	2.0	-0.53	*
Brassica oleracea var. botrytis l.	Leaf	0.3	7.0	-0.28	*
Brassica oleracea var. botrytis l.	Flower	0.03	12.0	1.0	*
Brassica pekinensis	Leaf	1.9	2.1	-0.4	*
Brassica napus var. napobrassica	Root	0.02	1.0	-0.61	ACTA AGRIC SCAND SUPPL 22: 1980
Capsicum annum	Fruit	0.05	5.5	0.89	*
Capsicum frutescens	Fruit	1.0	1.5	-0.32	*
Carum carvi	Fruit	--	7.0	1.35	*
Carum carvi	Seed	7.0	10.0	1.0	*
Carya glabra	Shoot	0.4	55.0	1.84	*
Carya ovata	Seed	--	9.8	0.97	*

<i>Carya illinoensis</i>	Seed	--	1.6	-0.6	*
<i>Carya ovata</i>	Shoot	0.25	23.0	0.1	*
<i>Cichorium endivia</i>	Leaf	2.0	2.4	-0.39	*
<i>Cinnamomum burmannii</i>	Bark	--	--		*
<i>Cinnamomum verum</i>	Leaf	--	4.2	-0.35	*
<i>Cinnamomum verum</i>	Bark	--	1.1		*
<i>Citrus reticulata</i>	Fruit	0.01	0.3	-0.69	ACTA AGRIC SCAND SUPPL 22: 1980
<i>Citrus paradisi</i>	Fruit	0.04	7.7	1.56	*
<i>Citrus sinensis</i>	Fruit	0.01	0.55	-0.61	*
<i>Cocos nucifera</i>	Seed	--	2.1	-0.51	Furr, A.K., et al. 1979
<i>Coriandrum sativum</i>	Fruit	--	2.4	-0.05	*
<i>Corylus avellana</i>	Seed	1.6	2.0	-0.53	*
<i>Cucumis sativus</i>	Fruit	0.01	1.25	-0.4	*
<i>Cucumis melo</i>	Fruit	0.87	1.1	-0.44	*
<i>Cuminum cyminum</i>	Fruit	--	3.6	0.32	*
<i>Cuminum cyminum</i>	Seed	--	3.6	-0.22	*
<i>Curcuma longa</i>	Rhizome	--	3.8	-1.0	*
<i>Daucus carota</i>	Root	--	2.0	-0.05	*
<i>Diospyros virginiana</i>	Stem	0.1	8.0	-0.11	*
<i>Diospyros virginiana</i>	Leaf	0.3	16.0	-0.08	*
<i>Fagopyrum esculentum</i>	Seed	--	1.0	-0.72	Laferriere, J.E., 1988, Nutricomp Program, Nutricomp Database; reviewed in J. Ethnobiology 9(1):27-29.
<i>Fallopia japonica</i>	Plant	--	--		Chem. & Pharm. Bull. 38: 2205.
<i>Foeniculum vulgare</i>	Seed	--	1.0	-0.72	*
<i>Foeniculum vulgare</i>	Fruit	--	1.0	-0.48	*
<i>Fragaria spp</i>	Fruit	0.03	0.36	-0.67	ACTA AGRIC SCAND SUPPL 22: 1980
<i>Glechoma hederacea</i>	Plant	--	--		Chem. & Pharm. Bull. 38: 2205.
<i>Glycine max</i>	Seed	1.0	30.0	4.83	*
<i>Inula helenium</i>	Plant	--	--		*
<i>Juglans cinerea</i>	Seed	--	4.3	-0.09	*
<i>Juglans nigra</i>	Seed	--	4.8	0.01	Furr, A.K., et al. 1979
<i>Juniperus virginiana</i>	Shoot	--	17.6	-0.19	*
<i>Lactuca sativa</i>	Leaf	0.18	28.0	0.19	*
<i>Lepidium sativum</i>	Leaf	--	0.04	-0.44	*
<i>Linum usitatissimum</i>	Seed	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
<i>Liquidambar styraciflua</i>	Stem	--	18.0	1.58	*
<i>Liquidambar styraciflua</i>	Leaf	0.3	24.6	0.11	*
<i>Lycopersicon esculentum</i>	Fruit	0.01	5.0	0.74	*

Malus domestica	Fruit	0.004	0.645	-0.58	*
Momordica charantia	Fruit	--	10.0	2.26	=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
Musa x paradisiaca	Fruit	0.01	0.1	-0.75	ACTA AGRIC SCAND SUPPL 22: 1980
Nyssa sylvatica	Leaf	--	188.0	3.81	*
Nyssa sylvatica	Stem	--	22.0	2.25	*
Oryza sativa	Seed	--	1.632	-0.6	*
Pastinaca sativa	Root	0.04	1.6	-0.27	*
Petasites japonicus	Plant	--	--		Chem. & Pharm. Bull. 38: 2205.
Petroselinum crispum	Plant	0.1	8.5	1.37	*
Peucedanum decursivum	Plant	--	--		*
Phaseolus vulgaris	Seed	0.5	7.0	0.43	*
Phaseolus vulgaris	Fruit	--	15.0	3.78	*
Phaseolus lunatus	Seed	0.3	7.0	0.43	*
Pinus echinata	Shoot	0.26	8.4	-0.69	*
Piper nigrum	Fruit	0.7	2.4	-0.05	*
Pistacia vera	Seed	--	1.1	-0.7	*
Pisum sativum	Seed	0.2	3.0	-0.34	*
Polystichum polyblepharum	Plant	--	--		*
Prunus domestica	Fruit	0.03	1.7	-0.26	*
Prunus persica	Fruit	0.15	4.5	0.59	*
Prunus serotina	Stem	--	2.7	-1.0	*
Prunus dulcis	Seed	1.2	1.6	-0.6	Furr, A.K., et al. 1979
Prunus serotina	Leaf	--	6.7	-0.29	*
Pyrus communis	Fruit	0.1	1.11	-0.44	*
Quercus velutina	Stem	0.168	12.4	0.63	*
Quercus rubra	Seed	--	0.4	-0.83	*
Quercus stellata	Stem	--	2.5	-1.03	*
Quercus phellos	Stem	0.4	12.6	0.67	*
Quercus rubra	Stem	0.16	9.9	0.21	*
Quercus alba	Stem	0.1	5.3	-0.56	*
Raphanus sativus	Root	0.01	0.71	-0.77	*
Rheum rhabarbarum	Pt	0.1	4.0		*
Rhus copallina	Stem	--	6.0	-0.44	*
Rhus copallina	Leaf	--	6.7	-0.29	*
Rhus glabra	Stem	--	6.7	-0.33	*
Ribes rubrum	Fruit	0.03	0.6	-0.6	*
Ribes nigrum	Fruit	--	0.101	-0.75	ACTA AGRIC SCAND SUPPL 22: 1980
Ribes uva-crispa	Fruit	0.004	0.4	-0.66	*
Rosa canina	Fruit	0.4	1.0	-0.48	ACTA AGRIC SCAND SUPPL 22: 1980

Rubus chamaemorus	Fruit	0.2	1.25	-0.4	*
Sassafras albidum	Stem	0.08	1.8	-1.15	*
Sassafras albidum	Leaf	0.23	3.4	-0.37	*
Sesamum indicum	Seed	--	1.2	-0.68	*
Simmondsia chinensis	Seed	--	4.0	-0.14	*
Sinapis alba	Seed	--	3.6	-0.22	*
Solanum tuberosum	Tuber	0.02	2.6		*
Solanum melongena	Fruit	0.7	0.8	-0.54	*
Sorbus aucubaria	Fruit	0.1	0.4	-0.66	*
Spinacia oleracea	Plant	0.05	5.7	-0.37	*
Symphoricarpos orbiculatus	Stem	0.2	4.4	-0.71	*
Syzygium aromaticum	Fruit	--	2.4	-0.05	*
Syzygium aromaticum	Flower	--	2.4	-1.0	*
Taraxacum officinale	Plant	--	--		*
Taraxacum officinale	Leaf	0.4	5.6	-0.32	*
Taraxacum officinale	Root	0.3	5.6	1.98	*
Trachyspermum ammi	Fruit	--	1.2	-0.41	*
Triticum aestivum	Seed	--	2.37	-0.46	*
Urtica dioica	Leaf	0.3	2.7	-0.38	*
Vaccinium macrocarpon	Fruit	0.05	0.38	-0.66	ACTA AGRIC SCAND SUPPL 22: 1980
Vigna unguiculata	Seed	--	6.0	0.24	*
Vigna unguiculata	Seed	--	6.0	0.24	*
Vigna mungo	Seed	--	5.664	0.17	*
Vigna radiata	Seed	--	3.456	-0.25	*
Vitis vinifera	Fruit	0.01	0.77	-0.55	*
Zea mays	Seed	0.12	6.3	0.3	*
Zingiber officinale	Root	2.0	5.2	1.75	*
Zingiber officinale	Rhizome	2.0	5.2	1.0	*