

Dr. Duke's Phytochemical and Ethnobotanical Databases

Chemicals found in *Taraxacum officinale*

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	11,13-DIHYDROTARAXIN-ACID-BETA-D-GLUCOPYRANOSYL-ESTER	Plant				--
0	11,13-DIHYDROTARAXIN-ACID-BETA-D-GLUCOPYRANOSYL-ESTER	Root				--
0	11,13-DIHYDROTARAXINACETYL-1'-O-GLUCOSIDES	Plant				--
0	14-TARAXEREN-3BETA-OL	Plant				J.S. Glasby Dict.Plis Containing 2ndary Metabolite. 1991.
0	2-CARBOXYARABINITOL	Leaf		356.0	0.2307361932056534	--
0	29-NORCYCLOARTANOL	Pollen Or Spore				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	3,4-DIHYDROXYCINNAMIC-ACID	Plant				--
0	3,4-DIHYDROXYCINNAMIC-ACID	Root				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	3,7-BETA-D-DIGLUCOSIDE-ISORHAMNETIN	Flower				--
0	31-NORCYCLOARTENOL	Plant				--
0	31-NORDEHYDROLANASTEROL	Pollen Or Spore				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	4-ALPHA-11-BETA-13,15-TETRAHYDRORIDENTIN-B	Root		4000.0		--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	4-ALPHA-15,11-BETA-13-TETRAHYDRORIDENTIN-B	Root				--
32	AESCULETIN	Flower				--
0	ALPHA-AMYLASE	Plant				--
0	ALPHA-LACTUCEROL	Latex Exudate				--
32	ALPHA-TOCOPHEROL	Leaf		170.0	-0.5547164006283091	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
5	ALUMINUM	Root	94.0	656.0	0.03950108174380199	--
0	ANDROSTEROL	Plant				--
1	ANEURINE	Plant				--
0	ANTHERAXANTHIN-ESTER	Flower				--
0	APIGENIN-7-GLUCOSIDE	Leaf				--
0	APS-SULFOTRANSFERASE	Leaf				--
0	ARABINOSE	Plant				--
1	ARNIDIOL	Flower				--
2	ARSENIC	Leaf				Chem. & Pharm. Bull. 38: 2205.
112	ASCORBIC-ACID	Root	54.0	376.0	-0.4310352549627957	--
112	ASCORBIC-ACID	Leaf	18.0	6520.0	0.16105282120258035	--
0	ASH	Leaf	18000.0	205000.0	1.5178274206549958	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	ASH	Root	11440.0	80000.0	0.35526479427075014	--
0	ASPARAGINIC-ACID	Leaf				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ASPARAGINIC-ACID	Plant				--
0	BARIUM	Leaf	50.0	80.0	-0.8262649183332945	Chem. & Pharm. Bull. 38: 2205.
9	BETA-AMYRIN	Flower				--
9	BETA-AMYRIN	Root				--
53	BETA-CAROTENE	Leaf	40.0	583.0	1.4009946671295506	--
53	BETA-CAROTENE	Root	12.0	84.0	0.10069386823526054	--
53	BETA-CAROTENE	Flower				--
0	BETA-D-FRUCTOPYRANOSIDES	Root				--
0	BETA-FRUCTOFURANOSIDASES	Root				--
0	BETA-FRUCTOPYRANOSIDASES	Root				--
0	BETA-LACTUCEROL	Latex Exudate				--
47	BETA-SITOSTEROL	Root		214.0	-0.27068071366460006	--
47	BETA-SITOSTEROL	Plant				--
47	BETA-SITOSTEROL	Flower				--
3	BETA-SITOSTEROL-3-O-BETA-D-GLUCOPYRANOSIDE	Root				--
0	BETA-SITOSTEROL-BETA-D-GLUCOPYRANOSIDE	Root				--
0	BETA-SITOSTEROL-GLUCOSIDES	Plant				--
4	BORON	Leaf	4.0	125.0	1.7366562696479586	Betting on Boron, Unpublished draft by J. A. Duke on file at USDA, draft and papers relating to boron percentages. Includes Internat. Z. Vit. Ern. Forschung 43:1973 (boron).
0	BROMINE	Leaf	30.0	80.0	0.7866803281462408	Chem. & Pharm. Bull. 38: 2205.
3	CADMIUM	Leaf	0.2	5.0	1.0824728791014093	--
3	CADMIUM	Root	0.04	2.6	1.7629139450449156	--
102	CAFFEIC-ACID	Flower				--
102	CAFFEIC-ACID	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
28	CALCIUM	Root	878.0	6140.0	-0.13829986219334658	--
28	CALCIUM	Plant	12000.0	21000.0	0.7926875803133279	Chem. & Pharm. Bull. 38: 2205.
28	CALCIUM	Leaf	1870.0	42232.0	1.6258439789322057	--
2	CAMPESTEROL	Leaf				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	CAOUTCHOUC	Plant		3000.0	-0.8257102586581143	--
0	CAOUTCHOUC	Latex Exudate		3000.0	-1.138622639854687	--
3	CAPRIC-ACID	Pollen Or Spore				--
0	CARBOHYDRATES	Root	107107.0	749000.0	-1.0400752461191412	--
0	CARBOHYDRATES	Leaf	37000.0	639000.0	0.2159161506572358	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	CAROTENE	Plant				--
0	CEROTIC-ACID	Root				--
0	CERYL-ALCOHOL	Latex Exudate				Perry, Lily M. 1980. Medicinal Plants of East and Southeast Asia. MIT Press. Cambridge, Massachusetts. 620 pp.
0	CERYL-ALCOHOL	Root				--
7	CHLORINE	Leaf	5300.0	22000.0	2.379246850295476	--
77	CHLOROGENIC-ACID	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
20	CHOLINE	Root	390.0	1120.0	-0.280909507435247	--
24	CHROMIUM	Root	0.1	0.9	-0.3805576061834531	--
24	CHROMIUM	Leaf	0.2	50.0	3.6279964032474075	--
0	CHRYSANTHEMAXANTHIN	Plant				--
0	CHRYSANTHEMUMXANTHIN	Flower				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	CIS-LUTEIN-5,6-EPOXIDE	Plant				--
0	CIS-TARAXANTHIN	Flower				--
0	CLUYTIANOL	Root				--
2	COBALT	Root	1.0	8.0	-0.3715682083878844	--
12	COPPER	Leaf	4.0	49.0	0.5873423835723849	--
12	COPPER	Root	3.0	28.0	1.8022668436014682	--
13	COUMESTROL	Plant				--
2	CRYPTOXANTHIN	Flower				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	CRYPTOXANTHIN-EPOXIDE	Flower				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	CRYPTOXANTHIN-EPOXIDE-ESTER	Flower				--
0	CRYPTOXANTHIN-ESTER	Flower				--
0	CYCLOARTANOL	Plant				--
0	CYCLOARTANOL	Pollen Or Spore				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
7	CYCLOARTENOL	Plant				--
7	CYCLOARTENOL	Leaf				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	CYCLOARTENOL	Pollen Or Spore				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
3	CYNAROSIDE	Flower				--
0	D-GLUCURONIC-ACID	Plant				--
5	DAUCOSTEROL	Root		480.0	0.12645077462758925	--
0	DODECADIENOIC-ACID	Pollen Or Spore				--
0	EO	Root	715.0	5000.0	-0.41927924121066534	--
0	EUDESMANOLIDES	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
2	FARADIOL	Flower				--
2	FARADIOL	Plant				--
0	FAT	Root	2288.0	16000.0	-0.2294322736898297	--
0	FAT	Leaf	7000.0	143000.0	1.7244221632917907	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
61	FERULIC-ACID	Flower				--
15	FIBER	Root		89000.0	0.01972306003706211	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
15	FIBER	Leaf	4000.0	126110.0	-0.43806976219057964	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	FIBER(CRUDE)	Root		89000.0	-0.65885994844302	--
0	FLAVOXANTHIN	Plant				--
0	FLAVOXANTHIN	Flower				--
8	FRUCTOSE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	GERMACRANOLIDE	Plant				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
7	GLUCOSE	Root		5000.0	-0.7978070163798161	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
8	GLUTAMIC-ACID	Leaf				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
8	GLYCEROL	Latex Exudate				--
0	HENEICOSAN-1-OIC-ACID	Pollen Or Spore				--
0	HEPTADECADIENOIC-ACID	Pollen Or Spore				--
0	HEPTADECENOIC-ACID	Pollen Or Spore				--
0	HEXADECADIENOIC-ACID	Pollen Or Spore				--
0	HEXADECENOIC-ACID	Pollen Or Spore				--
0	HOMOANDROSTEROL	Root				--
0	HOMOTARAXASTEROL	Root				--
8	INOSITOL	Latex Exudate				--
8	INOSITOL	Root				--
19	INULIN	Root	42900.0	300000.0	0.05809078622496001	--
19	INULIN	Plant				--
12	IODINE	Leaf				Chem. & Pharm. Bull. 38: 2205.
6	IRON	Root	14.0	96.0	-0.3021853183050419	--
6	IRON	Leaf	31.0	900.0	1.3606856309173474	--
22	ISOQUERCITRIN	Flower				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
11	ISORHAMNETIN	Flower				--
0	JASMONIC-ACID	Flower				--
0	JASMONIC-ACID	Bud				--
0	KILOCALORIES	Root		2650.0	-1.577890054797762	Pedersen, M. 1987. Nutritional Herbiology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	KILOCALORIES	Leaf	440.0	3130.0	0.1804017187480344	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	L-INOSITOL	Shoot				--
0	LACTUCEROL	Plant				--
7	LAURIC-ACID	Pollen Or Spore				--
0	LEAD	Root	0.1	13.6	2.753393095717452	--
0	LEAD	Leaf	0.8	10.0	-0.4336719785177379	--
0	LEAD	Plant				--
20	LECITHIN	Root				--
20	LECITHIN	Flower		29700.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	LEVULIN	Root		187000.0		--
0	LEVULIN	Plant				--
1	LEVULOSE	Plant				--
27	LINOLEIC-ACID	Pollen Or Spore				--
27	LINOLEIC-ACID	Root				--
0	LINOLENIC-ACID	Root				--
0	LINOLENIC-ACID	Pollen Or Spore				--
15	LUTEIN	Flower				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	LUTEIN-EPOXIDE	Flower				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	LUTEIN-EPOXIDE	Plant				--
0	LUTEIN-EPOXIDE-ESTER	Flower				--
0	LUTEIN-ESTER	Flower				--
78	LUTEOLIN	Flower				--
0	LUTEOLIN-3'-O-BETA-D-GLUCOSIDE	Flower				--
0	LUTEOLIN-4'-O-BETA-D-GLUCOSIDE	Flower				--
7	LUTEOLIN-7-GLUCOSIDE	Leaf				--
0	LUTEOLIN-7-O-GENTIOBIOSIDE	Flower				--
0	LUTEOLIN-7-O-RHAMNOGLUCOSIDE	Flower				--
65	MAGNESIUM	Leaf	360.0	2500.0	-0.6277550204208067	--
65	MAGNESIUM	Root	225.0	1570.0	-0.5276062015707126	--
14	MANGANESE	Leaf	14.0	206.0	-0.1174194411964242	--
14	MANGANESE	Root	1.0	6.8	-0.4646750389625507	--
14	MANGANESE	Plant	100.0	130.0	0.23682926226746964	--
18	MANNITOL	Root				--
0	MARGARIC-ACID	Pollen Or Spore				--
0	MELISSIC-ACID	Root				--
2	MOLYBDENUM	Plant				Chem. & Pharm. Bull. 38: 2205.
3	MUCILAGE	Root	11000.0	85000.0	-0.5660471669302359	--
6	MYRISTIC-ACID	Pollen Or Spore				--
1	MYRISTOLEIC-ACID	Pollen Or Spore				--
0	NEOXANTHIN-ESTER	Flower				--
39	NIACIN	Leaf	8.0	71.0	-0.32234447241033354	--
39	NIACIN	Root	4.7	33.1	-0.4967243334991701	--
3	NICKEL	Root	0.3	5.6	1.9774503536381358	--
3	NICKEL	Plant				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	NICKEL	Leaf	0.4	5.6	-0.3163758105813781	--
11	NICOTINIC-ACID	Root				--
0	NONADECANOIC-ACID	Pollen Or Spore				--
18	OLEIC-ACID	Root				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
18	OLEIC-ACID	Pollen Or Spore				--
9	OXALIC-ACID	Leaf		1700.0	-0.42631261700793327	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
25	P-COUMARIC-ACID	Flower				--
25	P-COUMARIC-ACID	Plant				--
0	P-HYDROXYPHENYLACETIC-ACID	Shoot		10.0		--
0	P-HYDROXYPHENYLACETIC-ACID	Plant				--
0	P-HYDROXYPHENYLACETIC-ACID	Root				--
13	PALMITIC-ACID	Pollen Or Spore				--
13	PALMITIC-ACID	Root				--
24	PECTIN	Root	17160.0	120000.0	-0.14497379746592196	--
0	PECTINS	Root		78000.0		--
1	PENTADECANOIC-ACID	Pollen Or Spore				--
0	PHLOBAPHENE	Root				--
4	PHOSPHORUS	Root	518.0	3620.0	0.01796753238811398	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	PHOSPHORUS	Leaf	590.0	5268.0	0.054560501723326035	--
2	PHYTOSTEROLS	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.
0	POLLINASTANOL	Plant				--
0	POLLINASTANOL	Pollen Or Spore				--
14	POTASSIUM	Root	1716.0	12000.0	-0.2766954649326155	--
14	POTASSIUM	Leaf	3970.0	30000.0	-0.01519366768525743	--
0	PROTEIN	Leaf	27000.0	321000.0	1.088926100722295	--
0	PROTEIN	Root	23595.0	165000.0	0.5231472238334102	--
43	PROTocatechuic-acid	Flower				--
0	PSEUDOTARAXASTEROL	Root				--
0	PSEUDOTARAXASTEROL	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	PSEUDOTARAXASTEROL-ACETATE	Root		280.0		--
0	PSI-TARAXASTEROL	Root				--
0	PSI-TARAXASTEROL-ACETATE	Root				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	PSI-TARAXEROL	Root				--
176	QUERCETIN	Flower				--
6	QUERCIMERITRIN	Flower				--
0	RESIN	Root				--
15	RIBOFLAVIN	Root	0.3	2.1	-0.4321138905848174	--
15	RIBOFLAVIN	Leaf	1.0	18.0	-0.09348678211643267	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	RUBBER	Root	1300.0	1950.0	1.6889299554768	--
0	RUBIDIUM	Plant	19.0	50.0	2.2655367486967726	Chem. & Pharm. Bull. 38: 2205.
0	SACCHAROSE	Root		11000.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	SAPONIN	Plant				--
44	SCOPOLETIN	Flower				--
60	SELENIUM	Root	0.1	0.9	-0.29843000767864497	--
4	SILICON	Root	0.7	4.7	-0.3213144079930342	--
0	SITOSTEROL	Leaf				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
1	SODIUM	Root	162.0	1130.0	0.013372462792456278	--
1	SODIUM	Leaf	760.0	5300.0	0.2940315620523972	--
8	STEARIC-ACID	Pollen Or Spore				--
12	STIGMASTEROL	Leaf				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
12	STIGMASTEROL	Root				--
0	STRONTIUM	Plant	64.0	120.0	-0.2098574913290402	Chem. & Pharm. Bull. 38: 2205.
14	SUCROSE	Plant				--
14	SUCROSE	Root				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	SUGARS	Root	14300.0	100000.0	-0.03757564189391796	--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
14	SULFUR	Plant	2600.0	3300.0	-0.2375519291864939	Chem. & Pharm. Bull. 38: 2205.
35	TANNIN	Root				--
0	TARAXACERINE	Root				--
0	TARAXACIN	Root				--
0	TARAXACINE	Root				--
0	TARAXACOLIDE-1'-O-BETA-D-GLUCOPYRANOSIDE	Root				--
0	TARAXACOLIDE-1'-O-BETA-D-GLUCOSIDE	Root		60.0		--
0	TARAXACOLIDE-1'-O-GLUCOSIDES	Plant				--
0	TARAXACOSIDE	Root		160.0		--
0	TARAXACOSIDE	Plant				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
0	TARAXACUM-OFFICINALE-GLYCOSIDE-TA-1	Flower				--
0	TARAXACUM-OFFICINALE-GLYCOSIDE-TA-2	Flower				--
0	TARAXACUM-OFFICINALE-GLYCOSIDE-TA-3	Flower				--
0	TARAXANTHIN	Plant				--
2	TARAXASTEROL	Root				--
2	TARAXASTEROL	Flower				--
2	TARAXASTEROL	Latex Exudate				--
2	TARAXEROL	Root				--
0	TARAXIEN	Flower		350.0		--
0	TARAXIN	Plant				Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	TARAXIN-ACID	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	TARAXIN-ACID-BETA-D-GLUCOPYRANOSYL-ESTER	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	TARAXINACETYL-1'-O-GLUCOSIDES	Plant				--
1	TARAXINIC-ACID-1'-O-BETA-D-GLUCOPYRANOSIDE	Root				--
1	TARAXINIC-ACID-1'-O-BETA-D-GLUCOPYRANOSIDE	Flower				--
1	TARAXINIC-ACID-1'-O-BETA-D-GLUCOPYRANOSIDE	Leaf				Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	TARAXINOIC-ACID-1'-O-BETA-D-GLUCOSIDE	Root		102.0		--
0	TARAXINOIC-ACID-1'-O-BETA-D-GLUCOSIDE	Shoot				--
0	TARAXOL	Root				--
6	TARTARIC-ACID	Plant				--
6	TARTARIC-ACID	Root				--
31	THIAMIN	Root				Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
31	THIAMIN	Leaf	1.0	17.0	1.8121416088410889	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	THIAMINE	Root				--
4	TIN	Root	2.0	13.0	-0.35437186016542255	--
0	TITANIUM	Plant	58.0	330.0	1.6469635463189243	Chem. & Pharm. Bull. 38: 2205.
0	TRANS-LUTEIN-5,6-EPOXIDE	Plant				--
0	TRANS-TARAXANTHIN	Flower				--

Activities Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	TYROSINASE	Root				--
24	VANILLIC-ACID	Flower				--
2	VIOLAXANTHIN	Flower				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	VIOLAXANTHIN-ESTER	Flower				--
0	VIOLAXANTHIN-LINEOLEATE-LINOLENATE	Pollen Or Spore				--
0	VIT-D	Plant				Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus.
0	WATER	Root		857000.0	0.5743795854226849	--
0	WATER	Leaf	356000.0	880000.0	0.3610143077732886	--
3	XANTHOPHYLL	Plant				--
3	XYLOSE	Plant				--
0	ZEAXANTHIN-ESTER	Flower				--
77	ZINC	Root	0.2	1.3	-1.0020091531784148	--
77	ZINC	Leaf	21.0	230.0	0.8847458901948265	--