

Dr. Duke's Phytochemical and Ethnobotanical Databases

List of Plants for BETA-BISABOLENE

Plant	Part	Low PPM	High PPM	StdDev	Reference
Alpinia galanga	Rhizome Essent. Oil		5700.0	-1.0	--
Alpinia galanga	Leaf		305.0	-0.09668384915000608	--
Alpinia galanga	Leaf Essent. Oil		5700.0	-0.9926246807613248	--
Alpinia galanga	Rhizome	2.0	7775.0	1.0	--
Angelica archangelica	Root	8.0	72.0	-1.2022170084503725	--
Angelica archangelica	Root Essent. Oil				--
Artemisia herba-alba	Plant				--
Artemisia capillaris	Essential Oil				--
Cannabis sativa	Plant				Turner, C. E., El Sohly, M. A., Boeren, E. G. 1980. Constituents of Cannabis sativa L. XVII. A Review of the Natural Constituents. J Natural Products, 432: 169-234.
Cannabis sativa	Leaf Essent. Oil				--
Cannabis sativa	Flower Essent. Oil				--
Centella asiatica	Shoot				Jim Duke's personal files.
Chamaemelum nobile	Plant				--
Citrus paradisi	Pericarp				--
Citrus limon	Leaf Essent. Oil		8000.0	-0.45226094922261545	Jim Duke's personal files.
Citrus limon	Essential Oil	23.0	400.0	-1.0	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Citrus limon	Petiole		25.0		--
Citrus aurantiifolia	Fruit		90.0	-0.8555004504472944	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Coleus barbatus	Root Essent. Oil		13000.0	-0.42853564535296584	Jim Duke's personal files.
Copaifera spp	Gum				--
Coridothymus capitatus	Shoot		44.0	-0.4702159665331807	Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Oregano Plants Grown Wild in Greece. Z. Lebensm Unters Forsch 197: 20-23.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Cuminum cyminum	Seed	60.0	360.0	-0.5964358465216921	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Cuminum cyminum	Fruit	60.0	360.0	-0.6279289020524476	--
Curcuma longa	Rhizome				--
Daucus carota	Seed	100.0	3500.0	1.4087125025983431	--
Daucus carota	Root		116.0	-0.04387653315512357	--
Daucus carota	Shoot		38.0	-0.48536297946072016	--
Illicium verum	Fruit	1.0	75.0	-0.8681433142470081	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Lantana camara	Shoot		32.0	-0.5005099923882596	--
Laurus nobilis	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lavandula x hybrida	Shoot	20.0	42.0	-0.4752649708423605	Tucker, A.O., Maciarello, M.J., Angell, S., Espaillat, J.R., and French, E.C. 1993. The Essential Oil of Lavandula x hybrida Balb. ex Ging., a Distinct Hybrid from L. x heterophylla Poir. (Labiatae). J. Ess. Oil Res. 5: 443-445.
Lavandula latifolia	Plant	1.0	15.0	-0.6009687641555104	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lindera benzoin	Leaf		11.0	-0.4169621115203249	--
Litsea glaucescens	Shoot	3.0	20.0	-0.5308040182433384	Tucker, et al, EB46(1):21-24.1992
Murraya koenigii	Leaf		0.0	-0.4289453118130919	--
Myristica fragrans	Essential Oil				--
Myrrhis odorata	Leaf Essent. Oil		17000.0	1.662205826363639	--
Myrtus communis	Plant	0.0	1.0	-0.6535148941588209	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Nepeta racemosa	Shoot		9.0	-0.5585735419438274	Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of Nepeta racemosa Lam. J. Ess. Oil Res. 5: 215-7.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Nepeta racemosa	Shoot		9.0	-0.5585735419438274	Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of Nepeta racemosa Lam. J. Ess. Oil Res. 5: 215-7.
Ocimum basilicum	Plant		6.5	-0.6328717716575204	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
Ocimum suave	Shoot		205.0	-0.06377111964420612	J. Nat. Prod. 44: 308.
Ocimum tenuiflorum	Leaf	0.0	2970.0	2.806518767234007	--
Ocimum basilicum	Shoot Essent. Oil		2600.0	1.0	--
Ocimum basilicum	Plant		6.5	-0.6328717716575204	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
Origanum onites	Shoot		1415.0	2.990876487409579	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. Flav. & Frag. J. 8: 331-7.
Origanum vulgare	Shoot		270.0	0.10032152040413772	Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Oregano Plants Grown Wild in Greece. Z. Lebensm Unters Forsch 197: 20-23.
Origanum vulgare	Plant		45.0	-0.4883699141484162	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four Origanum vulgare Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.
Origanum vulgare	Essential Oil		38100.0	1.0	--
Origanum onites	Plant		246.0	0.2660423808991146	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Origanum vulgare	Plant	3.0	640.0	1.7448406109922843	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Origanum vulgare	Plant		20.0	-0.582202289154328	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four Origanum vulgare Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.
Origanum vulgare	Plant		80.0	-0.3570045891401397	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four Origanum vulgare Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.
Origanum onites	Shoot		1415.0	2.990876487409579	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. Flav. & Frag. J. 8: 331-7.
Origanum vulgare	Plant		200.0	0.09339081088823689	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four Origanum vulgare Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.
Origanum vulgare	Shoot Essent. Oil		1500.0	-1.0	--
Panax ginseng	Plant				--
Panax quinquefolius	Root Essent. Oil	6251.0	58670.0	1.706312778237975	--
Panax ginseng	Root Essent. Oil				--
Pastinaca sativa	Root				--
Pelargonium graveolens	Essential Oil				--
Petasites hybridus	Rhizome				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Petroselinum crispum	Seed		22.0	-0.8122766560766513	--
Petroselinum crispum	Leaf		2.76	-0.4259386179214522	--
Pimpinella anisum	Tissue Culture				--
Pimpinella anisum	Essential Oil				--
Pimpinella anisum	Plant				--
Piper cubeba	Fruit Essent. Oil		20000.0	-1.0	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Piper nigrum	Fruit				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Piper cubeba	Fruit	1500.0	3000.0	1.5972151266971657	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Piper nigrum	Fruit Essent. Oil	21200.0	111600.0	1.0	--
Piper auritum	Leaf				Tramil
Plectranthus barbatus	Root Essent. Oil		13000.0	-0.42853564535296584	--
Plectranthus incanus	Shoot		30.0	-0.5055589966974394	Shah, G.C., Bhandari, R. & Mathela, C.S. 1992. 1,2-Epoxy-p-Menthane Derivatives from some Labiatae Species. J. Ess. Oil Res. 4: 57-59.
Psidium guajava	Pericarp Essent. Oil				--
Psidium guajava	Fruit		2000.0	0.7543575400495849	--
Ptychopetalum olacoides	Root Essent. Oil		4000.0	-0.8492414875320435	Uber Bucek, E., Fournier, G., Dadoun, H. 1987. Volatile Constituents of Ptychopetalum olacoides Root Oil. Planta Med. 53, 2: 231.
Satureja cilicica	Shoot		60.0	-0.42982393205974223	Tumen, G. Baser, K.H.C. and Kirimer, N. 1993. The Essential Oil of Satureja cilicica P.H. Davis. J. Ess. Oil Res. 5: 547-548.
Satureja montana	Plant	20.0	400.0	0.8440498109355312	--
Satureja thymbra	Shoot		0.0	-0.5812940613351365	Lagouri, V., Blekas, G., Tsimidou, M., Kokkini, S., and Boskou, D. 1993. Composition and Antioxidant Activity of Essential Oils from Oregano Plants Grown Wild in Greece. Z. Lebensm Unters Forsch 197: 20-23.
Scutellaria parvula	Plant		54.0	-0.454590259146288	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Sideritis germanicolpitana	Plant	17.0	41.0	-0.5033830941493621	J. Essential Oil, 4: 533.
Tagetes lucida	Shoot		30.0	-0.5055589966974394	Bicchi, C., Fresia, M., Rubiolo, P., Monti, D., Franz, C., Goehler, I. 1997. Constituents of Tagetes lucida Cav. ssp. lucida essential oil. Flavor & Fragrance, 12(1): 47-52.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Teucrium kotschyianum	Leaf		0.0	-0.4289453118130919	Arnold, N., Bellomaria, B., Velentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113.
Teucrium cyprium	Leaf		0.0	-0.4289453118130919	Arnold, N., Bellomaria, B., Velentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113.
Teucrium gnaphalodes	Shoot		0.0	-0.5812940613351365	Perez-Alonso, M.J. Velasco-Negueruela, A. and Lopez-Saez, J.A. 1993. The Essential Oils of Two Iberian Teucrium Species. J. Ess. Oil Res. 5: 397-402.
Teucrium polium	Shoot		12.0	-0.5510000354800577	Perez-Alonso, M.J. Velasco-Negueruela, A. and Lopez-Saez, J.A. 1993. The Essential Oils of Two Iberian Teucrium Species. J. Ess. Oil Res. 5: 397-402.
Teucrium micropodioides	Leaf		255.0	-0.15115294138985622	Arnold, N., Bellomaria, B., Velentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113.
Teucrium divaricatum	Leaf		0.0	-0.4289453118130919	Arnold, N., Bellomaria, B., Velentini G. and Rafaiani, S.M. 1991. Comparative Study on Essential Oil of Some Teucrium Species from Cyprus. J. Ethnopharm. 35: 105-113.
Thymus funkii	Shoot		0.0	-0.5812940613351365	Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.
Thymus longicaulis	Shoot		355.0	0.31490420354427967	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of Thymus longicaulis C. Presl subsp. longicaulis in the same Population. J. Ess. Oil Res. 5: 291-5.
Thymus serpyllum	Plant	68.0	1012.0	3.141066351080252	--
Thymus x citriodorus	Plant		130.0	-0.16933983912831613	Stahl-Biskup, E. and Holthuijzen, J. 1995. Essential oil and glycosidally bound volatiles of lemon-scented thyme, Thymus x citriodorus (Pers.) Schreb. Flav. & Fragr. J. 10: 225-229.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Thymus longicaulis	Shoot		345.0	0.28965918199838064	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of Thymus longicaulis C. Presl subsp. longicaulis in the same Population. J. Ess. Oil Res. 5: 291-5.
Thymus riatarum	Shoot		575.0	0.8702946775540589	Iglesias, J., Vila, R., Canigueral, S., Bellakdhar, and I Idrissi, A. 1991. Analysis of the Essential Oil of Thymus riatarum. J. Ess. Oil Res. 3: 43-4.
Thymus capitatus	Shoot		45.0	-0.4676914643785908	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. Flav. & Frag. J. 8: 331-7.
Thymus funkii	Shoot				Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.
Thymus longicaulis	Shoot		345.0	0.28965918199838064	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of Thymus longicaulis C. Presl subsp. longicaulis in the same Population. J. Ess. Oil Res. 5: 291-5.
Thymus capitatus	Plant	20.0	40.0	-0.5071363891495986	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Umbellularia californica	Plant	10.0	40.0	-0.5071363891495986	--
Valeriana officinalis	Leaf Essent. Oil	6200.0	9000.0	-0.21732019637969832	--
Valeriana officinalis	Root	2.0	165.0	1.2460935416054946	--
Zingiber officinale	Rhizome	5.0	3600.0	-1.0	--
Zingiber officinale	Rhizome Essent. Oil	25000.0	105100.0	1.0	--