

**Dr. Duke's Phytochemical and Ethnobotanical Databases**

**List of Plants for BETA-HUMULENE**

Plant	Part	Low PPM	High PPM	StdDev	Reference
Agastache rugosa	Tissue Culture				Jim Duke's personal files.
Apium graveolens	Seed				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Boswellia sacra	Essential Oil				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Citrus paradisi	Pericarp				--
Citrus limon	Essential Oil		10.0		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Copaifera spp	Gum				--
Inula helenium	Root		66.0		--
Mentha spicata	Leaf				Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Mentha pulegium	Plant				Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Mentha pulegium	Essential Oil				--
Panax ginseng	Root Essent. Oil				--
Panax ginseng	Plant				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Panax quinquefolius	Plant				--
Petasites hybridus	Rhizome				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6. Springer-Verlag, Berlin, 1969-1979.
Pimenta dioica	Fruit		405.0		--
Psidium guajava	Fruit				--