

BOTANICAL SOURCES USED IN FOOD AS FLAVOURINGS

EUPHRASIA OFFICINALIS L. EMEND HAYNE

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Euphrasia officinalis L. emend. Hayne

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Per l'introduzione alla rubrica,
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"For the introduction to this section
please see our issue of May 2002"

SYS NAME:	Euphrasia officinalis L.emend.Hayne
CE No :	192
STEINMETZ No :	464
ORDER:	Tubiflorae
FAMILY:	Scrophulariaceae
NAME:	E: Eyebright F: Euphrase, Luminet D: Augentrost I: Eufrasia
SYNONYMS:	Euphrasia Stricta Hort.
PARTS USED:	Herb
IMPORTANT CONSTITUENTS:	aucubin, eukovoside caffeic acid, gallic acid, tannin (12.4% in the dried herb), nonacosane, ceryl alcohol, a-sitosterol, stigmasterol, ferulic acid (1-3).
ACTIVE PRINCIPLES:	No data available
OTHER CONSTITUENTS OF TOXICOLOGICAL CONCERN:	
PRODUCTS IN WHICH USED:	the dried herb is one component of a British herbal tobacco.
LEVEL OF USE:	No data found
PREPARATION:	No data found
MAIN TOXICOLOGICAL DATA:	Euphrasia tincture is active, at concentration 80 ml/plate, in Ames test, using TA 98 and TA 100 strains, with and without 59 mix (4). Moreover euphrasia induced inhibitory activity on prostaglandin biosynthesis (12%) and platelet activating factor (PAF)-induced exocytosis in vitro (5). It is been suggested that 10-60 drops of the tincture could induce confusion of the mind and cephalgia (6).
DATA NEEDED:	chemical composition level and preparation used; if used a mutagenicity study.
MAIN REFERENCES:	1. Farmacia 29,333,1960; 2. Planta Med. 23,342,1973; 3. Helv. Chim. Acta 65,1533,1982; 4. Pharmazie, 49 448, 1984; 5. J. Ethnopharmacol. 48, 61, 1995; 6. Handbook of Medicinal Herbs, Duke 1987.
CLASSIFICATION AND LIMITS:	Herb - Category 5 Category 5: plants, animals and other organisms, and parts of these or products thereof, and preparations derived therefrom, for which additional toxicological and/or chemical information is required. These could temporarily be acceptable provided that any limits set for the "active principles" or the "other chemical components" are not exceeded.
DATA BASES USED:	NAPRALERT (1988-2001), CHEMABS (1967-2001), BIOSIS (1973-2001), FSTA (1969-2001), TOXLINE (1969-2001), MEDLINE (1966-2001), PASCAL (1973-2001). Key words: <i>Euphrasia Officinalis L. Emend. Hayne</i> , Eyebright, chemical composition, toxicity data