



CERTIFICATE OF ANALYSIS

COA*



BEWIT Betel Leaf

Czech: Pepřovník betelový esenciální olej

Latin: Piper betle

Batch number: AX2022/02



CTEO

★★★★★
**QUALITY
GUARANTEED**

We have developed our own set of standards and protocols CTEO® – **CERTIFIED THERAPEUTIC ESSENTIAL OILS** to monitor, check and evaluate the quality of our essential oils. Our goal is to consistently offer our customers essential oils in the best and most beneficial quality.

Certificate of analysis disclaimer

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General information

Batch number	AX2022/02
English	BEWIT Betel Leaf
Czech	Pepřovník betelový esenciální olej
Latin	Piper betle
Country of origin	India
Part of a plant	Leaves
Method of acquisition	Steam distilled
Color	Light yellow to light brown
Odor	Fenolic, smoky, spicy
cas number	84775-81-5
Main components	Eugenol, estragole, bornyl acetate, geranyl acetate
Refractometric index	1,5252
Optical rotation	-1,5° to -4°



General information

Components

COMPOUND	RELATIVE CONTENT (%)
Eugenol	19,8
Estragole	14,4
Bornyl acetate	13,0
Geranyl acetate	12,0
Linalyl acetate	8,8
β -caryophyllene	7,4
4-allyl-1,2-dimethoxybenzene	1,1
1,8 Cineole (Eucalyptol)	0,5
Coumarin	0,3
Camphene	0,2
D-limonene	0,2
Linalool	0,2
Neryl acetate	0,2



List of cosmetic allergens

Allergen INCI name	CAS number	%
Amyl cinnamal	122-40-7	--
Amylcinnamyl alcohol	101-85-9	--
Benzyl alcohol	100-512-6	--
Benzyl salicylate	118-58-1	--
Cinnamyl alcohol	104-54-1	--
Cinnamal	104-55-2	--
Citral	5392-40-5	--
Coumarin	91-64-5	0,3
Eugenol	97-53-0	19,8
Geraniol	106-24-1	--
Hydroxycitronellal	07-75-5	--
Hydroxymethylpentyl-cyclohexenecarboxaldehyde	31906-04-4	--
Isoeugenol	97-54-1	--
Anisyl alcohol	105-13-5	--
Benzyl benzoate	120-51-4	--
Benzyl cinnamate	103-41-3	--
Citronellol	106-22-9	--
Farnesol	4602-84-0	--
Hexyl cinnamaldehyde	101-86-0	--
D-limonene	5989-27-5	0,2
Linalool	78-70-6	0,2
Methyl heptene carbonate	111-12-6	--
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	127-51-5	--
Oak moss	90028-68-5	--
Tree moss	90028-67-4	--



Independent tests and studies

MADHUMITA, Mitali, Proshanta GUHA a Ahindra NAG. Extraction of betel leaves (Piper betle L.) essential oil and its bio-actives identification: Process optimization, GC-MS analysis and anti-microbial activity. *Industrial Crops and Products* [online]. 2019, 138 [cit. 2022-01-15]. ISSN 09266690. Dostupné z: doi:10.1016/j.indcrop.2019.111578

TISSERAND, Robert a Rodney YOUNG. *Essential oil safety: a guide for health care professionals*. Second edition. Edinburgh: Elsevier, 2013. ISBN 9780443062414.



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