CERTIFICATE OF ANALYSIS

COA*

BEWIT Zanthoxylum

Czech: Zanthoxylum esenciální olej
Latin: Zanthoxylum armatum

Batch number: AX2025/10

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

COA is a document published by BEWIT Natural Medicine, s.r.o., which contains both general and specific information about essential oils and other BEWIT products. The COA includes information from literary publications and other publicly available sources as well as selected sensometric analyses from BEWIT laboratories (BEWIT ESSENTIAL LABORATORIES), supplier analyses and, in some cases, tests from independent laboratories. The COA published for a given product may not always match the product batch on offer at BEWIT at the time and may not always describe all batches of the given product that may be on offer at the time.

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General information

Batch number	AX2025/10
English	BEWIT Zanthoxylum
Czech	Zanthoxylum esenciální olej
Latin	Zanthoxylum armatum
Country of origin	Nepal
Part of a plant	Fruit
Method of acquisition	Steam distilled
Color	Light yellow
Odor	Citrusy, peppery, slightly woody
cas number	91770-90-0
Main components	Linalool, Limonene
Refractometric index	1,467-1,481
Optical rotation	5,03-9,67
Specific gravity	0,8153-0,9050
Flash point (°C)	75

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Components

COMPOUND	RELATIVE CONTENT (%)
Linalool	52,5
D-Limonene	18,7
β-Phellandrene	10,4
Methyl Cinnamate	9,8
β-Myrcene	2,4
Terpinen-4-ol	0,8
Sabinene	0,5
γ-Terpinene	0,5
Terpinolene	0,5
α-Terpineol	0,4
β-Caryophyllene	0,4
α-Phellandrene	0,3
α-Terpinene	0,3
para-Cymene	0,3
α-Pinene	0,2
Geraniol	0,2

List of cosmetic allergens

Allergen INCI name		CAS number	%
Benzyl Alcohol	-	100-51-6	--
6-Methyl Coumarin	-	92-48-8	--
Amyl Cinnamal	-	122-40-7	--
Cinnamyl Alcohol	-	104-54-1	--
Citral	Citral Geranial Neral	5392-40-5 141-27-5 106-26-3	0,1
Eugenol	-	97-53-0	--
Hydroxycitronellal	-	107-75-5	--
Isoeugenol	Isoeugenol Trans-Isoeugenol Cis-Isoeugenol	97-54-1 5932-68-3 5912-86-7	--
Amylcinnamyl Alcohol	-	101-85-9	--
Benzyl Salicylate	-	118-58-1	--
Cinnamal	-	104-55-2	--
Coumarin	-	91-64-5	--
Geraniol	-	106-24-1	0,2
Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde	-	51414-25-6 / 31906-04-4	--
Anise Alcohol	-	105-13-5	--
Benzyl Cinnamate	-	103-41-3	--
Farnesol	-	4602-84-0	--
Linalool	-	78-70-6	52,5
Benzyl Benzoate	-	120-51-4	--
Citronellol	Citronellol D-Citronellol L-Citronellol	106-22-9 / 26489-01-0 1117-61-9 7540-51-4	--
Hexyl Cinnamal	-	101-86-0	--
Limonene	Limonene D-Limonen L-Limonen	138-86-3 / 7705-14-8 5989-27-5 5989-54-8	18,7
Methyl 2-Octynoate	-	111-12-6	--
Alpha-Isomethyl Ionone	-	127-51-5	--
Evernia Prunastri Extract	-	90028-68-5	--
Evernia Furfuracea Extract	-	90028-67-4	--

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Pinus Mugo	Pinus Mugo Leaf Oil; Pinus Mugo Twig Leaf Extract; Pinus Mugo Twig Oil	90082-72-7	--
Pinus Pumila	Pinus Pumila Needle Extract; Pinus Pumila Twig Leaf Extract; Pinus Pumila Twig Leaf Oil	97676-05-6	--
Cedrus Atlantica Oil/Extract	Cedrus Atlantica Bark Extract; Cedrus Atlantica Bark Oil; Cedrus Atlantica Bark Water; Cedrus Atlantica Leaf Extract; Cedrus Atlantica Wood Extract; Cedrus Atlantica Wood Oil	92201-55-3 / 8023-85-6	--
Turpentine	-	9005-90-7 / 8006-64-2 / 8052-14-0	--
Alpha-Terpinene	-	99-86-5	0,3
Terpinolene	-	586-62-9	0,5
Myroxylon Pereirae Oil/Extract	Myroxylon Balsamum Pereirae Balsam Extract; Myroxylon Balsamum Pereirae Balsam Oil; Myroxylon Pereirae Oil; Myroxylon Pereirae Resin Extract; Myroxylon Pereirae Resin	8007-00-9	--
Rose Ketones	Alpha-Damascone Cis-Rose Ketone 1 Trans-Rose Ketone 1 Rose Ketone 4 (Damascone) Rose Ketone 3 (Delta-Damascone) Trans-Rose Ketone 3 Cis-Rose Ketone 2 (Cis-Beta-Damascone) Trans-Rose Ketone 2 (Trans-Beta- Damascone)	43052-87-5 23726-94-5 24720-09-0 23696-85-7 57378-68-4 71048-82-3 23726-92-3 23726-91-2	--
3-Propylidenephthalide	-	17369-59-4	--
Lippia Citriodora Absolute	-	8024-12-2 / 85116-63-8	--
Methyl Salicylate	-	119-36-8	--
Acetyl Cedrene	-	32388-55-9	--
Amyl Salicylate	-	2050-08-0	--
Anethole	-	104-46-1 / 4180-23-8	--
Benzaldehyde	-	100-52-7	--
Camphor	-	76-22-2 / 21368-68-3 / 464-49-3 / 464-48-2	--
Beta-Caryophyllene	-	87-44-5	0,4
Carvone	Carvone; L-Carvone; D-Carvone	99-49-0 / 6485-40-1 / 2244-16-8	--
Dimethyl Phenethyl Acetate	-	151-05-3	--
Hexadecanolactone	-	109-29-5	--
Hexamethylindanopyran	-	1222-05-5	--

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Linalyl Acetate	-	115-95-7	--
Menthol	Menthol DL-Menthol L-Menthol D-Menthol	89-78-1 1490-04-6 2216-51-5 15356-60-2	--
Trimethylcyclopentenyl Methylisopentenol	-	67801-20-1	--
Salicylaldehyde	-	90-02-8	--
Santalol	Santalol Alpha-Santalol Beta-Santalol	11031-45-1 115-71-9 77-42-9	--
Sclareol	-	515-03-7	--
Terpineol	Terpineol Alpha-Terpineol Beta-Terpineol Gamma-Terpineol	8000-41-7 98-55-5 138-87-4 586-81-2	0,4
Tetramethyl Acetyloctahydronaphthalenes	-	54464-57-2 / 54464-59-4 / 68155-66-8 / 68155-67-9	--
Trimethylbenzenepropanol	-	103694-68-4	--
Vanillin	-	121-33-5	--
Cananga Odorata Oil/Extract	Cananga Odorata Flower Extract; Cananga Odorata Flower Oil	83863-30-3 / 8006-81-3 / 68606-83-7 / 93686-30-7	--
Cinnamomum cassia Leaf Oil	-	8007-80-5 / 84961-46-6	--
Cinnamomum Zeylanicum Bark Oil	-	8015-91-6 / 84649-98-9	--
Citrus Aurantium Flower Oil	Citrus Aurantium Amara Flower Oil Citrus Aurantium Dulcis Flower Oil	72968-50-4 8028-48-6 / 8016-38-4	--
Citrus Aurantium Peel Oil	Citrus Aurantium Amara Peel Oil Citrus Aurantium Dulcis Peel Oil; Citrus Sinensis Peel Oil	68916-04-1 / 72968-50-4 97766-30-8 / 8028-48-6 / 8008-57-9	--
Citrus Aurantium Bergamia Peel Oil	-	8007-75-8 / 89957-91-5 / 68648-33-9 / 8007-75-8 / 85049-52-1	--
Citrus Limon Peel Oil	-	84929-31-7 / 8008-56-8	--
Lemongrass Oil	Cymbopogon Schoenanthus Oil Cymbopogon Flexuosus Oil Cymbopogon Citratus Leaf Oil	8007-02-1 / 89998-16-3 91844-92-7 8007-02-1 / 91844-92-7	--
Eucalyptus Globulus Oil	Eucalyptus Globulus Leaf Oil Eucalyptus Globulus Leaf/Twig Oil	97926-40-4 / 8000-48-4 8000-48-4	--
Eugenia Caryophyllus Oil	Eugenia Caryophyllus Leaf Oil Eugenia Caryophyllus Flower Oil Eugenia Caryophyllus Stem oil Eugenia Caryophyllus Bud oil	8000-34-8 / 8015-97-2 / 84961-50-2 84961-50-2 84961-50-2 84961-50-2	--

Jasmine Oil/Extract	Jasminum Grandiflorum Flower Extract; Jasminum Officinale Oil; Jasminum Officinale Flower Extract	84776-64-7 / 90045-94-6 / 8022-96-6 / 8024-43-9	--
Juniperus Virginiana Oil	Juniperus Virginiana Oil Juniperus Virginiana Wood Oil	8000-27-9 85085-41-2	--
Laurus Nobilis Leaf Oil	-	8002-41-3 / 8007-48-5 / 84603-73-6	--
Lavandula Oil/ Extract	Lavandula Hybrida Oil; Lavandula Hybrida Extract; Lavandula Hybrida Flower Extract Lavandula Intermedia Flower/Leaf/Stem Extract; Lavandula Intermedia Flower/Leaf/Stem Oil; Lavandula Intermedia Oil Lavandula Angustifolia Oil; Lavandula Angustifolia Flower/Leaf/Stem Extract	91722-69-9 / 8022-15-9 / 93455-96-0 / 93455-97-1 / 92623-76-2 84776-65-8 / 8000-28-0 / 90063-37-9 84776-65-8 / 8000-28-0 / 90063-37-9	--
Mentha Piperita Oil	-	8006-90-4 / 84082-70-2	--
Mentha Viridis Leaf Oil	Mentha Spicata Oil (Spearmint Oil)	8008-79-5 / 84696-51-5	--
Narcissus Extract	Narcissus Poeticus Extract Narcissus Pseudonarcissus Flower Extract Narcissus Jonquilla Extract Narcissus Tazetta Extract	90064-26-9 / 68917-12-4 90064-27-0 90064-25-8	--
Pelargonium Graveolens Flower Oil	-	90082-51-2 / 8000-46-2	--
Pogostemon Cablin Oil	-	8014-09-3 / 84238-39-1	--
Rose Flower Oil/Extract	Rosa Damascena Flower Oil; Rosa Damascena Flower Extract Rosa Alba Flower Oil; Rosa Alba Flower Extract Rosa Canina Flower Oil Rosa Centifolia Flower Oil; Rosa Centifolia Flower Extract Rosa Gallica Flower Oil Rosa Moschata Flower Oil Rosa Rugosa Flower Oil	8007-01-0 / 90106-38-0 93334-48-6 84696-47-9 84604-12-6 84604-13-7 92347-25-6	--
Santalum Album Oil	-	8006-87-9 / 84787-70-2	--
Eugenyl Acetate	-	93-28-7	--
Geranyl Acetate	-	105-87-3	--
Isoeugenyl Acetate	-	93-29-8	--
Pinene	Alpha-Pinene; Beta-Pinene	80-56-8 / 7785-70-8 / 127-91-3 / 18172-67-3	0,3

Independent tests and studies

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