

Certificate of analysis



Article	G439	Oleum Cinnamomi ceylanici	
Synonym		Zimtöl (Ceylon)	
Synonym		Cinnamon bark oil, Ceylon	
Batch	24002497		
Specification	Ph.Eur.11.0		
Production date	10.2024	Retest date	10.2027

Test	Specification	Result	
Characters	According to specification	Complies	
Appearance	According to specification	Complies	
Identification	According to specification	Complies	
Thin-layer chromatography	According to specification	Complies	
Gas chromatography	According to specification	Not carried out	
Tests	According to specification	Complies	
Relative density	1,000 ... 1,030	1.026	
Refractive index	1,572 ... 1,591	1.589	
Optical rotation	-2 ... 1	-2 °	
Chromatographic profile	According to specification	Complies	#
Cineole	Max. 3,0 %	2.5 %	#
Linalol	1,0 ... 6,0 %	5.9 %	#
Beta-Caryophyllene	1,0 ... 4,0 %	4.0 %	#
Safrole	Max. 0,5 %	0.0 %	#
Trans-Cinnamic aldehyde	55 ... 75 %	73 %	#
Eugenol	Max. 7,5 %	5.6 %	#
Coumarin	Max. 0,5 %	0.0 %	#
Trans-2-methoxycinnamaldehyde	0,1 ... 1,0 %	0.2 %	#
Benzyl benzoate	Max. 1,0 %	0.7 %	#
Fatty oils and resinified ess. oils	According to specification	Complies	
Heavy metals	According to specification	Complies	
Lead	Max. 5,0 ppm	0.0 ppm	
Cadmium	Max. 1,0 ppm	0.0 ppm	
Mercury	Max. 0,1 ppm	0.0 ppm	
Pesticide residues	According to specification	Complies	
Aflatoxins	According to specification	Complies	

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Test	Specification	Result
Microbiological quality	According to specification	Complies
TAMC (CFU/g)	Max. 200 CFU/g	< 100 CFU/g
TYMC (CFU/g)	Max. 20 CFU/g	< 10 CFU/g
Escherichia coli	Max. 0 CFU/g	0 CFU/g
Salmonella	Max. 0	0 KBE/10g
Staphylococcus aureus	Max. 0 CFU/g	0 CFU/g
Pseudomonas aeruginosa	Max. 0 CFU/g	0 CFU/g
Gram-negative bacteria that tolerate bile salts	Max. 0 CFU/g	0 CFU/g
Complies specification		Yes

Release date	14.11.2024	Released by	Frau Apoth. Dr. Schücker, QP
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Results marked with # were taken from the manufacturer's certificate.

The batch 24002497 complies specification.

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