



Article	G432	Oleum Caryophylli	
Synonym		Nelkenöl	
Synonym		Clove oil	
Batch	24001429		
Specification	Ph.Eur.11.0		
Production date	05.2024	Retest date	05.2027

Test	Specification	Result	
Characters	According to specification	Complies	
Appearance	According to specification	Complies	
Solubility	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	1.030 ... 1.063	1.051	
Refractive index	1.528 ... 1.537	1.535	
Optical rotation	-2 ... 0	< -1 °	
Fatty oils and resinified ess. oils	According to specification	Complies	#
Solubility in alcohol	According to specification	Complies	
Chromatographic profile	According to specification	Complies	#
Beta-Caryophyllene	5.0 ... 14.0 %	8.9 %	#
Eugenol	75.0 ... 88.0 %	83.4 %	#
Acetyeugenol	4.0 ... 15.0 %	5.3 %	#
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	
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	

Certificate of analysis



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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	10.07.2024	Released by	Frau Apoth. Dr. Schücker, QP
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Results marked with # were taken from the manufacturer's certificate.

The batch 24001429 complies specification.

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