

## Certificate of analysis



Article	G456	Oleum Foeniculi amari	
Synonym		Bitterfenchelöl	
Synonym		Bitter-fennel fruit oil	
Batch	22003926		
Specification	Ph.Eur.10.0		
Production date	11.2022	Retest date	11.2025

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	0,961 ... 0,975	0,963	
Refractive index	1,528 ... 1,539	1,529	
Optical rotation	10,0 ... 24,0	14,7 °	
Chromatographic profile	According to specification	Complies	#
Alpha-Pinene	1,0 ... 10,0 %	7,2 %	#
Limonene	0,9 ... 5,0 %	2,9 %	#
Fenchone	12,0 ... 25,0 %	17,1 %	#
Estragole	Max. 6,0 %	3,3 %	#
Cis-Anethole	Max. 0,5 %	0,2 %	#
Trans-Anethole	55,0 ... 75,0 %	65,1 %	#
Anisaldehyde	Max. 2,0 %	0,1 %	#
Alpha-Pinene/Limonene ratio	Min. 1,0	2,5	#
Complies specification		Yes	

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Release date	10.01.2023	Released by	Frau Dr. Haßel, QP, LQK
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Results marked with # were taken from the manufacturer's certificate.

The batch 22003926 complies specification.

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