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ROEPER



Nature is not replaceable ...

## CERTIFICATE OF ANALYSIS

Article 10368 L-Menthol natural bold / large crystals  
"Mentha & Allied"  
Ref. 2824601 Batch M 24171  
Production Date 10.12.2021 Retest Date 09.12.2026

Parameter	Method	Unit	Specification	Result
Appearance	Ph. Eur.		prismatic or acicular, colourless, shiny crystals	conform
Solubility	Ph. Eur.		conforms with requirement of Ph.Eur.	conform
Identification	Ph. Eur.		passes test A and C (TCL) of Ph.Eur. passes test A (GC) and B of USP	passes tests
Appearance of solution	Ph. Eur.		clear and colourless	conform
Acidity or alkalinity	Ph. Eur.		passes test	conform
Specific optical rotation	Ph. Eur.	°	-48 to -51	-49.7
Related substances (GC)	Ph. Eur.		passes test	conform
Residue on evaporation	Ph. Eur.	%	max. 0.05	0.02
Assay	USP/NF	%	98.0 - 102.0	conform
Limit of nonvolatile residue	USP/NF	%	max. 0.05	conform
Related compounds	USP/NF		individual impurities: max. 0.3 total impurities: max. 2.0	conform
Melting range	USP/NF	°C	41 - 44	43.0

The specified test methods may differ from the actual methods used; but in the majority they are identical.

The analysed sample material meets the respective purity requirements of

Ph.Eur. 10.4 (monograph 0619) ; USP 43 / NF 38 (monograph)



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Signature:

*[Signature]*

*Elke Bha...*

Hamburg, 25.02.2022

Results documented in this certificate are based on analysis of samples taken from the batch mentioned, either performed by the manufacturer immediately after production or by an accredited external laboratory after import on our demand, as indicated. The analysis is not to be construed as a warranty with regard to suitability of the product for its intended use, expressed or implied. The certificate does not release the consumer from own examinations of the characteristics of the product in this respect. Improper transport and / or storage can cause changes or damage to the product.