

Certificate of analysis



Article	3297	Macrogol 4000 Pulver	
Synonym		Macrogola 4000, Polyäthylenglycolum 4000	
Synonym		Macrogols 4000 powder	
Batch	22004211		
Specification	Ph.Eur.10.3		
Production date	06.2022	Retest date	06.2025

Test	Specification	Result	
Characters	According to specification	Complies	
Appearance	According to specification	Complies	
Solubility	According to specification	Complies	
Identification	According to specification	Complies	
A	According to specification	Complies	
B	According to specification	Complies	
C	According to specification	Complies	
Raman spectrophotometry	According to specification	Complies	
Tests	According to specification	Complies	
Appearance of solution	According to specification	Complies	
Acidity or alkalinity	According to specification	Complies	
Viscosity	110 ... 170 mPa*s	121 mPa*s	
Freezing point	53 ... 59 °C	53 °C	
Hydroxyl value	25 ... 32	27	#
Reducing substances	According to specification	Complies	
Formaldehyde	Max. 30 ppm	< 15 ppm	#
Ethylene oxide	Max. 1 ppm	< 1 ppm	#
Dioxan	Max. 10 ppm	< 10 ppm	#
Water	Max. 1,0 %	0,3 %	
Sulphated ash	Max. 0,2 %	< 0,2 %	#
Stabilizer	Quantity / description	keine	
Complies specification		Yes	

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Release date	30.01.2023	Released by	Frau Dr. Haßel, QP, LQK
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Results marked with # were taken from the manufacturer's certificate.

The batch 22004211 complies specification.

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