

Certificate of analysis



Article	3297	Macrogol 4000 Pulver	
Synonym		Macrogola 4000, Polyäthylenglycolum 4000	
Synonym		Macrogols 4000 powder	
Batch	22003814		
Specification	Ph.Eur.10.3		
Production date	05.2022	Retest date	05.2025

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	130 mPa*s	
Freezing point	53 ... 59 °C	54 °C	
Hydroxyl value	25 ... 32	28	#
Reducing substances	According to specification	Complies	
Formaldehyde	Max. 30 ppm	< 15 ppm	#
Ethylene oxide	Max. 1 ppm	0 ppm	#
Dioxan	Max. 10 ppm	0 ppm	#
Water	Max. 1,0 %	0,3 %	
Sulphated ash	Max. 0,2 %	< 0,2 %	#
Stabilizer	Quantity / description	keine	
Complies specification		Yes	

METAPHARMACEUTICAL

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28.01.2023

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Release date	15.12.2022	Released by	Frau Dr. Haßel, QP, LQK
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Results marked with # were taken from the manufacturer's certificate.

The batch 22003814 complies specification.

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