

# Certificate of analysis



Article	3297	Macrogol 4000 Pulver
Synonym		Macrogola 4000, Polyäthylenglycolum 4000
Synonym		Macrogols 4000 powder
Batch	21001852	
Specification	Ph.Eur.10.0	
Production date	06.2020	Retest date 06.2023

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	120 mPa*s
Freezing point	53 ... 59 °C	55 °C
Hydroxyl value	25 ... 32	28 #
Reducing substances	According to specification	Complies
Formaldehyde	Max. 30 ppm	< 30 ppm #
Ethylene oxide	Max. 1 ppm	< 1 ppm #
Dioxan	Max. 10 ppm	< 10 ppm #
Water	Max. 1,0 %	0,5 %
Sulphated ash	Max. 0,2 %	< 0,2 % #
Stabilizer	Menge/Name - keine	keine
Complies specification		Yes

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Release date	14.06.2021	Released by	Frau Apoth. Dr. Schlenk, QP, LQK
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Results marked with # were taken from the manufacturer's certificate.

The batch 21001852 complies specification.

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