

## Certificate of analysis



Article	3297	Macrogol 4000 Pulver	
Synonym		Macrogola 4000, Polyäthylenglycolum 4000	
Synonym		Macrogols 4000 powder	
Batch	23002714		
Specification	Ph.Eur.11.0		
Production date	05.2023	Retest date	05.2026

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	122 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 %	0.1 %	#
Sulphated ash	Max. 0,2 %	< 0.2 %	#
Stabilizer	Quantity / description	5 ppm BHT	#
Complies specification		Yes	

## Certificate of analysis



---

Article	3297	Macrogol 4000 Pulver	
Synonym		Macrogola 4000, Polyäthylenglycolum 4000	
Synonym		Macrogols 4000 powder	
Batch	23002714		
Specification	Ph.Eur.11.0		
Production date	05.2023	Retest date	05.2026

---

Release date	27.11.2023	Released by	Frau Dr. Haßel, QP, LQK
--------------	------------	-------------	----------------------------

Results marked with # were taken from the manufacturer's certificate.

The batch 23002714 complies specification.

This document has been generated automatically and is valid without signature.