

Certificate of analysis



Article	4277	Hypromellose, nominale Viskosität 4000	
Synonym		Methocel E4M®, Hydroxypropylmethylcellulose	
Synonym		Hypromellose, apparent viscosity 4000	
Batch	23003602		
Specification	Ph.Eur.11.0		
Production date	07.2022	Retest date	07.2025

Test	Specification	Result	
Substitution type	*****	2910	
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	
D	According to specification	Complies	
Flocculation temperature	Min. 50 °C	52 °C	
Tests	According to specification	Complies	
Appearance of solution	According to specification	Complies	
pH-Value	5,0 ... 8,0	6.0	
Viscosity	3000 ... 5600 mPa*s	4233 mPa*s	
Loss on drying	Max. 5,0 %	2.4 %	
Sulphated ash	Max. 1,5 %	0.3 %	#
Assay (Methoxy groups)	28,0 ... 30,0 %	28.8 %	#
Assay (Hydroxypropoxy groups)	7,0 ... 12,0 %	9.0 %	#
Complies specification		Yes	

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Release date	05.01.2024	Released by	Frau Apoth. Dr. Schücker, QP
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Results marked with # were taken from the manufacturer's certificate.

The batch 23003602 complies specification.

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