

# Certificate of Analysis

BENECEL E4M PHARM BOX 18.14KG Benecel (TM) E4M HPMC Type 2910 3600 mPas HYPROMELLOSE Ashland Material Number: 821893		Customer Order: 123001843  Shipped Quantity: 11.000 BX Shipped From: AIE BE ANTWERP ZW.W W3P CLD Order Number: 8783313/000010 Delivery: 852623364/000010 Date Shipped: March 24, 2023 Sold To Number: 487308
		Batch: 0002633158 ✓
Characteristics	Specification	Results
Loss on drying (DQC REG 01.01b) %	0.0 - 5.0	1.0
Viscosity 2% solution, dry (DQC REG 01.02) mPa.s	2700 - 5040	4513
pH of solution (DQC REG 01.03)	5.0 - 8.0	7.8
Methoxyl content (DQC REG 01.05b) %	28.0 - 30.0	29.2
Hydroxy Propoxyl content (DQC REG 01.05b) %	7.0 - 12.0	8.7
Sulphate Ash/Res. On Ign. (DQC REG 01.06a) %	0.0 - 1.5	0.6
Date of Manufacture		January 02, 2023 ✓
Retest Date		January 01, 2026 ✓
Shipped Quantity		11.000 BX

## Notes:

Identification A,B,C,D,E : pass

The Certified range data below are based on intermittent testing:

Heavy metals (as Pb), ppm: <=10

USP Residual Solvents <467> : Meets requirements

Appearance of Solution : Meets requirements

This product conforms to the monograph for hypromellose type 2910 in the current NF,EP,JP and ChP. This product has been manufactured in accordance with the current Joint IPEC-PQG Good Manufacturing Practices Guide for Pharmaceutical Excipients. This product is intended for excipient use only.

Best if used within 3 years of date of manufacture. Our products have a retesting interval, which is assigned to assure that the product can still satisfy the original specifications to which these products are sold.

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This COA is printed from a secure computer system ensuring the batch was properly released by the Quality Department and is valid without signature.

Manufactured by:  
ASHLAND SPECIALTIES BELGIUM BVBA  
AFFILIATE OF ASHLAND  
HAVEN 1920, GESLECHT 2  
9130 DOEL-BEVEREN  
BELGIUM

Contact:  
EWA CZARNOTA  
Email: EWA.CZARNOTA@ASHLAND.COM