

**QUALITY CERTIFICATE**

Product name: LACTOSE MONOHYDRATE  
Quality: Ph.Eur.11.1.  
Package: 5 kg  
Formula:  $C_{12}H_{22}O_{11} \cdot H_2O$   
Rel. mol. weight: 360,32  
Lot No.: GC7154775  
Manufacturing date: 04.2023.  
Expiry date: 30.06.2026. (DMY)  
Anal. No.: 15090H54775

	<b>REQUIRED</b>	<b>MEASURED</b>
Appearance:	white or almost white crystalline powder	white crystalline powder
Identity (FT-IR)	identical	identical
Appearance of solution	clear (max.BY <sub>7</sub> )	clear < BY <sub>7</sub>
Alkalinity, acidity	passes test	passes test
$[\alpha]_D^{20}$	(+54,4)-(+55,9)	+54,93
Absorbance	passes test	passes test
Heavy metals (Pb)	max.5 ppm	<5 ppm
Water (KF.)	4,5-5,5 %	5,35 %
Sulphated ash	max.0,1 %	0,0604 %
Total germs	max.100 CFU/g	1 CFU/g
Escherichia coli	negative	negative
Particle size distribution (10g/2min,1500-2500Pa) <32µm	45-75 %	46-57 %
Particle size distribution (10g/2min,1500-2500Pa) <100µm	min90 %	91-97 %
Bulk density (g/cm <sup>3</sup> ):	passes test	passes test

**The Product complies with the requirements of Ph.Eur.11.1.**

Kiállítva: Halásztelek, 2023.06.19.

  
Nagy Balázs

minőségbiztosítási vezető

**Molar Chemicals Kft.**  
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