

**Scharlab S.L.**

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CERTIFICATE OF ANALYSIS

Product D(-)-Mannitol, reagent grade, ACS, Reag. Ph Eur

Batch 18979302

MA0150

Quality release date 18/06/2018

Expiry date 06/2023

Analysis	Batch value	Specifications
Assay (Referred to dried sample)	99,36 %	97,0 - 102,0
Acidity	0,00003 meq/g	≤ 0,0008
Conductivity (25°C; 20%, in H ₂ O)	3,10 µS/cm	≤ 20
Identity (IR-Spectrum)	passes test	passes test
specific rotation ([α] 25 °C/D, c = 10, in borax, 13%)	23,8 °	23,3 - 24,3
Insoluble in water	< 0,01 %	≤ 0,01
Heavy metals	< 0,0005 %	≤ 0,0005
Loss on drying (105 °C, 4h)	0,08 %	≤ 0,5
Loss on drying (105 °C)	0,01 %	≤ 0,05
Melting range	168 °C	165 - 170
Nickel (Ni)	< 0,0001 %	≤ 0,0001
Related substances:		
Impurity A	< 2,0 %	≤ 2,0
Sum of impurity B and C	< 2,0 %	≤ 2,0
Unspecified impurities	< 0,10 %	≤ 0,10
Total related substances	< 2,0 %	≤ 2,0
Disregard limit	< 0,05 %	≤ 0,05
Reducing sugars (as glucose)	< 0,1 %	≤ 0,1
Reducing sugars	passes test	passes test
Residue on ignition	< 0,01 %	≤ 0,01