

**QUALITY CERTIFICATE**

Product name: GLUCOSE  
Quality: Ph.Eur.11.1.  
Package: 5 kg  
Formula: C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>  
Rel. mol. weight: 180,16  
Lot No.: GO8162029  
Manufacturing date: 08.2023.  
Expiry date: 29.05.2027. (DMY)  
Anal. No.: 18622H62029

	<b>REQUIRED</b>	<b>MEASURED</b>
Appearance:	white or almost white crystalline powder	white crystalline powder
Identification test 'A'	identical	identical
Identification test 'D'	identical	identical
[α] <sub>D</sub> <sup>20</sup>	(+52,5)-(+53,3) °	+52,97 °
Assay	97,5-102,0 %	100,3 %
Solubility	freely soluble in water, very slightly soluble in ethanol (96 per cent)	freely soluble in water, very slightly soluble in ethanol (96 per cent)
Appearance of solution	max.BY7	<BY7
Conductivity	max.20 μS/cm-1	3,46 μS/cm-1
Related substances (HPLC)	passes test	passes test
Impurity A and B	max.0,4 %	<0,4 %
Impurity C	max.0,2 %	<0,2 %
Impurity D	max.0,15 %	<0,15 %
Unspecified impurities	max.0,1 %	<0,1 %
Total impurities	max.0,5 %	<0,5 %
Dextrin	passes test	passes test
Soluble starch, sulfite	max.15 ppm	<15 ppm
Water	max.1,0 %	0,054 %
Lead (Pb)	max.0,5 ppm	<0,5 ppm
Total germs	max.1000 CFU/g	1 CFU/g
Yeast and moulds	max.100 CFU/g	0 CFU/g
Salmonella	negative	negative
Escherichia coli	negative	negative