

# Technical Specification

**PRODUCT : D(+)-Glucose monohydrate ERBapharm According to pharmacopoeia : Ph.Eur.-USP-BP-DAB-JP**

**CODE : 346970**

**CAS N° : 5996-10-1**

**FORMULA : CH<sub>2</sub>OHCH(CHOH)<sub>3</sub>CHOH.H<sub>2</sub>O**

TEST	U.M.	SPECIFICATION
Description	-	White crystalline powder
Identifications	-	Positives
Identification IR (USP)	-	Positive
Appearance of solution	-	Conform*
Soluble starch, sulfite	ppm	<= 15*
Dextrin	-	Conform*
Specific optical rotation at 20°C (anh.)	°	+52.5 to +53.3
Sulfated ashes	%	<= 0.1*
Water (K.F.)	%	7.5 - 9.5
Acidity	-	Conform*
Conductivity at 20°C	µS/cm	<= 20*
Conductivity at 25°C	µS/cm	<= 20*
Heavy metals (as Pb)	ppm	<= 4*
Chloride	%	<= 0.018*
Sulfate	%	<= 0.025*
Loss on drying 105°C	%	<= 1.0*
As	ppm	<= 1*
Assay (on anhydrous)	%	97.5 - 102.0
Assay (optical rotation dried sub.)(JP)	%	>= 99.5
Related substances (HPLC)	-	Conform
Maltose and isomaltose	%	<= 0.4
Maltotriose	%	<= 0.2
Fructose	%	<= 0.15
Unspecified	%	<= 0.10
Total impurities	%	<= 0.5
Origin (BSE/TSE)	-	Vegetable

This batch has been released by authorized personnel

\* Parameters marked with \* are tested periodically

It is under the customer responsibility to make sure the purchased product is suitable for his use and/or application.  
 CARLO ERBA Reagents would not be guilty of any misuse or mishandling of any of its products, occurring potential damages or user hurts in case of in