

## TMB 034 – D (+) - GLUCOSE (ANH.) (Molecular Biology Grade)

REF NO: TBL/QA/SS/LC/TMB 034	<b>STANDARD SPECIFICATION FOR D (+) GLUCOSE (ANH.) (Molecular Biology Grade)</b>	Rev. No: 03
Issue No: 04		Review Date: 06/02/2025
Issue Date: 07/02/2022		Product code: TMB 034

### PRODUCT PROPERTIES

C.A.S Number	50-99-7
Chemical Formula	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>
Formula weight	180.16
Functional Uses	D-(+)-Glucose has been used for culturing of mammalian cells. It has been used to study interactions between glucose and alanine and their influence on pentose phosphate pathway activity.
Standard Packaging	100gm. & 500 gm.

### PHYSICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Appearance	White crystalline powder, sweet in taste
Solubility	Freely soluble in water.

### CHEMICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Specific Optical Rotation (at 25°C)	+52.5° to +53.3°
Ash (as SO <sub>4</sub> )	NMT – 0.1%
Chloride (Cl)	NMT – 0.005%
Lead (Pb)	NMT – 0.0005%
DNases/ RNases	None Detected
Assay	NLT – 99.5%

**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.