

1316– LACTOSE (MONO) 99% + CRYSTALLINE

REF NO: TBL/QA/SS/LC/1316	STANDARD SPECIFICATION FOR LACTOSE (MONO) 99% +CRYSTALLINE	Rev. No: 03
Issue No: 04		Review Date: 26/10/2024
Issue Date: 27/10/2021		Product code: 1316

PRODUCT PROPERTIES

C.A.S Number	10039-26-6
Chemical Formula	$C_{12}H_{22}O_{11} \cdot H_2O$
Formula weight	360.31
Functional Uses	Lactose is used to help form tablets because it has excellent compressibility properties. It is also used to form a diluent powder for dry-powder inhalations. Used as laboratory reagent.
Standard Packaging	500 gm and 25kg.

PHYSICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Appearance	White crystalline powder, Odorless.
Solubility	Freely soluble in water.
Clarity	Clear solution.

CHEMICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
pH (0.5M in H ₂ O, 25°C)	4.0 – 6.0
Residue on ignition	NMT – 0.05%
Specific rotation	+53±1°
Chloride (Cl)	NMT – 0.005%
Sulphate (SO ₄)	NMT – 0.005%
DNase	None detected
RNase	None detected
Assay	NLT – 99.5%

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

