

Lactose Monohydrate

Intended Use

It is used in Molecular Biology.

Storage and Stability

Store dehydrated medium below 30°C in tightly closed container. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

Note: TSE/BSE certificate is available on request.

Directions

Refer to the final concentration in the formula of the medium being prepared.

Quality Control

Test	Specification
Appearance	White or almost white crystalline powder
Solubility	Freely but slowly soluble in water, practically insoluble in ethanol (95%) & (96%)
Colour and Clarity of prepared medium	The solution is clear and not more intensely coloured than reference solution by 7.
Absorbance- At 400NM	<= 0.040
Absorbance - At 210-220NM	<= 0.250
Absorbance - At 270-300NM	<= 0.070
Acidity & Alkalinity	<= 0.40
Residue on Ignition /Sulphated ash	<= 0.10
Heavy Metals	<= 5.0 ppm
Identification – A- By IR	To comply
Identification B- By TLC	To comply
Identification D- Water	To comply
Loss on Drying	<= 0.50
Arsenic	<= 1 ppm

Microbial Contamination

Total aerobic micrbial count	<=100/g
Escherichia coli	Absent/10 g
Salmonella	Absent/10 g
Shigella	Absent/10 g

Particle size distribution

Percent on 75 Mesh	86%
Percent on 180 Mesh	100%
Specific Optical Rotation	Between +54.4° to +55.9°
Bulk density (Untapped)	About 0.46 g/mL
Bulk density (100 Tapped)	About 0.80 g/mL

Reference

1. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

Product Presentation:

Cat No.	Product description	Pack Size
202120340500	Lactose Monohydrate	500 g
202120342500	Lactose Monohydrate	2.5 k
202120349925	Lactose Monohydrate	25 k (Bag)
202120349825	Lactose Monohydrate	25 k (Drum)

Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.
