

## 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
<b>Microbial Contamination</b>	
Total aerobic microbial count	<=100/g
<i>Escherichia coli</i>	Absent/ g
<i>Salmonella</i>	Absent/10 g
<i>Shigella</i>	Absent/10 g
<b>Particle size distribution</b>	
Percent on 45 Mesh	65%
Percent on 100 Mesh	100%
Specific Optical Rotation	Between 54.4° to 55.9°
Bulk density (Untapped)	About 0.600 g/mL
Bulk density (Tapped)	About 0.900 g/mL

### Reference

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

**Product Presentation:**

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

	Temperature Limit		Manufacturer		Lot Number		Hygroscopic keep container tightly closed		Date of Manufacture		Catalogue Number		Consult Instructions for use		Use-by Date		Received on		Opened on
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Revision: 1025/VER-03

**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.