

Specification Sheet

Product Name: **α -Lactose monohydrate**
Specifications & Purity: USP grade
SKU # **L102282**

Parameter	Limit Values
Microbial contamination	0-100 (cfu/g)
Ignition Residue	0-0.1 (%)
Acidity(0.1 N NaOH)	0-0.4
Water by Karl Fischer	4.5-5.5 (%)
Loss on drying	0-0.5 (%)
Heavy metals	0-5 (ppm)
Appearance (L102282)	White to Off-White Powder or Crystals
Enterobacteriaceae	none detected
Escherichia Coli	none detected
Identification	pass
Particle size	Pass
Salmonella	none detected
Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in H}_2\text{O}+0.2\text{ml}6\text{N NH}_3)$	54.4-55.9 (°)
UV Absorbance 400nm,1%	0-0.04
UV Absorbance 300nm,1%	0-0.07
UV Absorbance 270nm,1%	0-0.07
UV Absorbance 220nm,1%	0-0.25
UV Absorbance 210nm,1%	0-0.25
solution (colorless clear liquid,1g/10ml boiling water)	Pass