

# Chem-Impex International, Inc.

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## Certificate of Analysis

<b>Catalogue Number</b>	01611
<b>Lot Number</b>	000996-590000931
<b>Product</b>	<b><math>\alpha</math>-D-Lactose monohydrate, NF/USP, EP, JP</b> 4-O- $\beta$ -D-Galactopyranosyl- $\alpha$ -D-glucose
<b>CAS Number</b>	64044-51-5
<b>Molecular Formula</b>	C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> •H <sub>2</sub> O
<b>Molecular Weight</b>	360.32

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<b>Appearance</b>	White crystalline powder
<b>Appearance of Solution</b>	Passes test
<b>Clarity &amp; Color</b>	Clear and colorless
<b>Bulk density</b>	0.58 g/mL
<b>Water Content (Karl Fisher)</b>	5%
<b>Acidity &amp; Alkalinity</b>	0.1 mL
<b>Mould and Yeast</b>	< 1 cfu/g (total)
<b>Optical Rotation</b>	[ $\alpha$ ] <sub>D20</sub> = 55.3 °
<b>UV Ratios</b>	Absorbance (400 nm) : 0.0
<b>Loss on Drying</b>	0.08%
<b>E. Coli, Salmonella, S.Aureus</b>	Negative
<b>Microbial Count</b>	1 cfu/g (total aerobic)
<b>Protein Determination</b>	0.02 (210-220 nm); 0.0 (270-300 nm)
<b>Mesh Size</b>	0% thr' 80 mesh 1% thr' 100 mesh 24% thr' 200 mesh
<b>Residue On Ignition</b>	0.03%
<b>Purity</b>	> 99%
<b>Grade</b>	NF/USP, EP, JP
<b>Storage</b>	Store at 0 - 8 °C
<b>Additional Information</b>	Enterobacteriaceae-Bile tolerant organism : Absent Pseudomonas : Negative per 10 g Tapped Density : 0.83 g/mL

# *Certificate of Analysis*

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**Country of Origin** USA

**Remarks** See material safety data sheet for additional information  
For laboratory use only

**The foregoing is a copy of the Certificate of Analysis as provided by our supplier**



**Bala Kumar**  
**Quality Control Manager**