

**PRODUCT SPECIFICATION**  
**Lactose Monohydrate**  
**USA Origin**

This product conforms to the current definition and standards of identity for lactose as defined in 21 CFR 168.122(c) and is affirmed by the US FDA to be Generally Recognized as Safe (GRAS).

**1. Chemical:**

Parameter	Units	Min	Max
Lactose monohydrate	% m/m	99	
Protein (Nx6.38), dry basis	% m/m	0.2	
Moisture (Loss on drying)	% m/m	0.2	
Ash	% m/m	0.3	
pH (10% TS @ 20C)	pH units	4.5	7.0
Heavy Metals as lead	mg/kg	0.05	
Nitrates	mg/kg	25	
Nitrites	mg/kg	1.0	

**2. Physical:**

Parameter	Units	Min	Max
Color		A	
Scorched particles	mg/100 g		A (7.5 mg)
Bulk Density	g/ml		TBR
Insolubles		0.1	

**3. Microbiological:**

Parameter	Units	Min	Max
Standard plate count	CFU/g	1,000	
Enterobacteriaceae	/10g		Negative
E. coli	MPN/g	<0.3	
Yeast & Mold	CFU/g	50	
Listeria	/125 g		Absent
Salmonella	/750 g		Absent
Bacillus cereus	CFU/g	100	
Coag Positive Staphylococci	/g		Not Detected
Thermophiles	CFU/g	1,000	
Thermophilic Aerobic Spores	CFU/g	100	

**4. Certifications:**

Kosher certified by OK Kosher  
Halal certified by IFANCA

**5. Packaging and Storage:**

Packaged in 1000Kg bulk bags. Shelf life 2 years (729 days) from date of manufacturing. Recommended storage conditions include temperature below 25C, relative humidity below 65%, and an odor-free environment.

**6. Allergens:** Dairy