

## Hilmar 5000 Natural Lactose

Hilmar 5000 is an edible grade crystalline alpha monohydrate lactose manufactured using a single crystallization process operated under strict food hygiene standards. Its consistent quality makes it suitable as a wet mix infant formula ingredient and to enhance a variety of food products including soups, sauces, flavorings, confectionery, baked goods and meat products. It is also suitable for high quality animal nutrition products. This coarse grained, unground grade is suited to applications where good product flow is required.

### FEATURES / BENEFITS

- Superior Consistency, Purity and Clarity
- Natural Carbohydrate
- Reduces Sweetness When Replacing Sugar
- Excellent Anti-Caking Aid
- Lowers Water-Activity
- Flow Agent
- Seeding Agent
- Controls Graininess
- Brightens and Preserves Colors
- Browning Agent
- Non-GMO (our products are not manufactured with genetically engineered components)

### FOOD SAFETY & CERTIFICATION

- Produced in a GFSI-Certified Facility
- SEDEX Registered
- Kosher  and Halal Certified
- EU Compliant
- FDA Registered
- Made with milk not treated with rBST\*
- Made in the USA

### PHYSICAL CHARACTERISTICS

Hilmar 5000 Natural Lactose is a free flowing, off-white, slightly yellow crystallized powder. A 2% solution is slightly sweet without foreign flavors or odors. It is water-soluble.

Typical Particle Size	Typical %
USS 60# (passing)	80 ± 10

### NUTRITIONAL VALUES

Composition	Specification	Test Method
Lactose Monohydrate (%)	99.0 min	Calculation
Free Moisture (%)	0.3 max	USP
Total Protein (%)	0.3 max	AOAC
Ash (%)	0.3 max	USP
pH	4.5 - 7.0	10% Sol. at 20°C
Scorched Particle (mg/25g)	7.5	SMEDP

Microbiology	Specification	Test Method
APC (CFU/g)	2,500 max	SMEDP
Coliforms (CFU/g)	<10	AOAC
<i>E. Coli</i> (CFU/g)	<10	AOAC
Salmonella (750g)	Negative	AOAC
Yeast (CFU/g)	50 max	AOAC
Mold (CFU/g)	50 max	AOAC
Coagulase Positive Staph (CFU/g)	<10	AOAC
Listeria (25g)	Negative	AOAC

### PACKAGING

25 kg heat-sealed, multi-wall kraft bag with inner polyethylene bag liner.

1000 kg poly woven bag with inner polyethylene bag liner.

### STORAGE / SHELF LIFE

Shelf life is two years from the date of manufacture. Recommended storage is between 10-25 °C and a relative humidity lower than 75%. Store away from aromatic materials.

### RECOMMENDED LABEL

Edible Lactose

### ORDERING INFORMATION

BAG SIZE	PART CODE	SHIPPING POINT
25 kg	300001	Hilmar, CA USA
1000 kg	300014	Hilmar, CA USA

\*No significant difference has been shown between milk derived from rBST-treated and non-rBST-treated cows.