

## Hilmar™ 5100 Refined Edible Natural Lactose

Hilmar™ 5100 is a crystalline alpha monohydrate lactose manufactured using a crystallization and purification process operated under strict food hygiene standards. This refined edible lactose has consistent quality and purity, which suits its use in a variety of finished food products where good flow is required.

### FEATURES / BENEFITS

- Superior Consistency, Purity and Clarity
- Natural Carbohydrate
- Reduces Sweetness When Replacing Sugar
- Lowers Water-Activity
- Flow Agent
- Non GMO (our products are not manufactured with genetically engineered components)

### APPLICATIONS

- Confectionery
- Powdered Mixes
- Veterinary Products
- Homeopathic Products
- Bakery and Food Applications
- Pharmaceutical Fermentations

### FOOD SAFETY & CERTIFICATION

- Produced in a GFSI-Certified Facility
- SEDEX Approved
- Kosher  and Halal Certified
- EU Compliant

### PHYSICAL CHARACTERISTICS

Hilmar™ 5100 Refined Edible 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)	65 ± 5

### NUTRITIONAL VALUES

Composition	Specification	Test Method
Lactose Monohydrate (%)	99.4 min	Calculation
Loss of Drying (%)	0.3 max	USP
Total Protein (%)	0.3 max	AOAC
Residue on ignition (%)	0.3 max	USP
pH	4.0 - 7.0	10% Sol. at 20°C
Scorched Particle (mg/25g)	7.5	SMEDP

Microbiology	Specification	Test Method
APC (cfu/g)	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	ISO/IDF
Mold (cfu/g)	50 max	ISO/IDF
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 less than 25° C and a relative humidity lower than 75%. Store away from aromatic materials.

### RECOMMENDED LABEL

Refined Lactose

### ORDERING INFORMATION

BAG SIZE	PART CODE	SHIPPING POINT
25 kg	350008	Hilmar, CA
1000 kg	350015	Hilmar, CA