



Foremost[®] NF Lactose Product Code 310

Description: Monohydrate, Crystalline, 80 mesh, Regular

CHEMICAL ANALYSIS	TYPICAL	SPECIFICATION
Acidity or alkalinity	0.1 mL	0.4 mL of 0.1 N NaOH (maximum)
Clarity and color @ 400 nm	0.01	0.04 (maximum)
Heavy metals, µg/g	Less than 5.0	5.0 (maximum)
Loss on drying, %	0.2	0.5 (maximum)
Protein and light-absorbing impurities at 210-220 nm	0.05	0.25 (maximum)
at 270-300 nm	0.01	0.07 (maximum)
Residue on ignition, %	0.02	0.1 (maximum)
Specific rotation	+55.0° to +55.3°	+54.4° to +55.9°
Water, %	4.8 to 5.2	4.5 to 5.5
 MICROBIOLOGICAL STANDARDS	 TYPICAL	 SPECIFICATION
Total aerobic microbial count	Less than 10 cfu/g	100 cfu/g (maximum)
<i>Escherichia coli</i>	Negative	Negative
Total combined molds and yeasts count	Less than 10 cfu/g	50 cfu/g (maximum)
<i>Staphylococcus aureus</i>	Negative	Negative
<i>Pseudomonas aeruginosa</i>	Negative	Negative
<i>Salmonella</i> species	Negative	Negative
 POWDER FINENESS (CUMULATIVE)	 TYPICAL	 SPECIFICATION
On USS #80 (180 micron)	0.0-1.0 %	2.0 % (maximum)
On USS #140 (106 micron)	15-30 %	Not applicable
On USS #200 (75 micron)	35-45 %	30-60 %
 PHYSICAL CHARACTERISTICS		
Bulk Density	0.66g/mL	0.60 g/mL (minimum)
Tapped Density	0.92g/mL	0.85 g/mL (minimum)
Appearance	White, crystalline powder	White, crystalline powder
Flavor and odor	Slightly sweet	Slightly sweet

STORAGE CONDITIONS

Protect from moisture and excessive heat.

ALLERGEN CLASSIFICATION

Contains lactose, does not contain milk or whey protein.