



Foremost® NF Lactose
Product Code 313

Description: Monohydrate, Crystalline, 325 mesh, Impalpable C

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 #200 (75 micron)	0.0-1.0 %	1.0 % (maximum)
On USS #325 (45 micron)	2.0-8.0 %	10.0 % (maximum)
On USS #400 (37 micron)	15-25 %	Not applicable
PHYSICAL CHARACTERISTICS		
Bulk Density	0.44 g/mL	0.35 g/mL (minimum)
Tapped Density	0.72g/mL	0.65 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 proteins.		

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