



Foremost® NF Fast Flo® Lactose
Modified, Spray Dried
Product Code 316

Description: A spray-dried mixture of crystalline and amorphous lactose

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, %	0.6	1.0 (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	+54.8° to +55.2°	+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 #60 (250 micron)	0.0-0.5 %	2.0 % (maximum)
On USS #140 (106 micron)	30-55 %	20 % (minimum)
On USS #200 (75 micron)	60-80 %	50 % (minimum)
PHYSICAL CHARACTERISTICS	TYPICAL	SPECIFICATION
Bulk Density	0.58 g/mL	0.50 g/mL (minimum)
Tapped Density	0.67 g/mL	0.60 g/mL (minimum)
% Lactose (d.b.)	99 % (+)	
Appearance and Flavor	White, crystalline powder, slightly sweet	
Microscopic Appearance	Spherical particles, ranging in size from 60-120 microns	

STORAGE CONDITIONS

Protect from moisture and excessive heat.

RE-EVALUATION DATE

Sealed container can be stored at least twelve months without undergoing decomposition or degradation.

ALLERGEN CLASSIFICATION

Contains lactose, does not contain milk or whey proteins.

CONFORMANCE

NF Lactose Monohydrate Modified Spray Dried 316 conforms to the current versions of the NF/USP, EP and JP monographs.