



Foremost® NF Lactose
Modified, Spray Dried
Product Code 315

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, %	0.3	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 #30 (600 micron)	0 %	0 % (maximum)
On USS #140 (106 micron)	30-60 %	20 % (minimum)
On USS #200 (75 micron)	55-75 %	50 % (minimum)
PHYSICAL CHARACTERISTICS	TYPICAL	SPECIFICATION
Bulk Density	0.67 g/mL	0.60 g/mL (minimum)
Tapped Density	0.78 g/mL	0.70 g/mL (minimum)
% Lactose (d.b.)	99 % (+)	
Appearance and flavor	White, crystalline powder, slightly sweet	

STORAGE CONDITIONS

Protect from moisture and excessive heat.

RE-EVALUATION DATE

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

ALLERGEN CLASSIFICATION

Contains lactose, does not contain milk or whey proteins.

CONFORMANCE

NF Lactose monohydrate modified spray dried 315 conforms to the NF/USP, EP, and JP monographs.

This information is presented in good faith but it is not warranted as to accuracy of results. Also, freedom from patent infringement is not inferred. This information is offered solely for your investigation, verification, and consideration. (1/10)