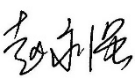




Specification Sheet

<u>D-Mannose</u>		
Item No.:	MN001	
CAS #:	3458-28-4	
Country of Origin:	P. R. China	
Shelf Life:	Three Years	
Sterilization:	Non-Irradiated/Non-ETO/Treat by Heat Only	
Test	Specification	Method
Identification		
Assay	99.0% – 105.0%	HPLC
Physical/Chemical		
Identification	Positive	FTIR
Appearance	White crystalline powder	Visual
Odor	Characteristic	Organoleptic
Powder Size	≥ 90% through 20 mesh	USP #20 Sieve
	70% – 100% through 80 mesh	USP #80 Sieve
Bulk Density	0.25 – 0.60 g/mL	USP40-NF35<616>
Tapped Density	0.46 – 0.80 g/mL	USP40-NF35<616>
Loss on Drying	≤ 0.5%	USP40-NF35<731>
Residual Solvents	USP<467>	USP40-NF35<467>
Pesticide Residues	USP<561>	USP40-NF35<561>
Aflatoxins	20 ppb	USP40-NF35<561>
Heavy Metals		
Total Heavy Metals	≤ 10 µg/g	USP40-NF35<231>
Arsenic (As)	≤ 1.0 µg/g	ICP-MS
Cadmium (Cd)	≤ 0.5 µg/g	ICP-MS
Lead (Pb)	≤ 1.0 µg/g	ICP-MS
Mercury (Hg)	≤ 0.5 µg/g	ICP-MS
Microbiology		
Total Plate Count	< 1,000 cfu/g	USP40-NF35<2021>
Molds and Yeasts	< 100 cfu/g	USP40-NF35<2021>
Total Coliforms	< 10 cfu/g	USP40-NF35<2021>
<i>Salmonella</i>	Absence	USP40-NF35<2022>
<i>E. Coli</i>	Absence	USP40-NF35<2022>
<i>Staphylococcus aureus</i>	Absence	USP40-NF35<2022>
Quality Approved By: 		Issued Date: 01-01-2018