



MTC Industries, Inc.

Nutra**ce**uticals, Food**ce**uticals, and Pharma**ce**uticals

Inositol Product Specification

Country of Origin: China

CAS Number: 87-89-8

Storage: Preserve in a well ventilated dry place, protected from hazardous substance.

Item	Specification	Method
Shelf-life	48 month	
鉴别 Identification (A.B)	Positive reaction (A)	FCC IX
	212.0°C –216.0°C (B)	
澄清度 Clarity and color of solution	Clear and transparent	USP43-NF38
干燥失重 Loss on drying	Not more than 0.5%	105°C/4hrs
熔点 Melting Point	224~227°C	FCC IX
炽灼残渣 Residue on Ignition	≤0.1%	750°C/5hrs
含量 Assay	≥97.0% and ≤102.0%	HPLC
电导率 Conductivity	≤20μ s cm-1	USP43-NF38
氯化物 Chloride	≤0.005%	FCC IX
硫酸盐 Sulfate	≤0.006%	FCC IX
钙 Calcium	0	FCC IX
钡 Barium	0	USP43-NF38
铁 Iron	≤0.0005%	CP2015
重金属以 Pb 计 Heavy Metals(as Pb)	≤5ppm	CP2010
总杂质 Total impurities	≤1.0%	USP43-NF38
单项杂质 Individual impurities	≤0.3%	USP43-NF38
铅 Lead	≤0.5mg/kg	AAS
砷 Arsenic	≤0.5mg/kg	AAS
汞 Mercury	≤0.1mg/kg	AAS
镉 Cd	≤0.5mg/kg	AAS
菌落总数 Total plate count	≤1000cfu/g	CP2015
霉菌 Mould and yeast	≤100cfu/g	CP2015
大肠杆菌 E.Colin	Absent/g	CP2015
沙门氏菌 Salmonella	Negative /25g	CP2015
堆积密度 Bulk Density	0.53g/ml -0.63g/ml	USP43-NF38
振实密度 Tapped Density	0.850~0.900g/ml	USP43-NF38
目数 Mesh	100% Pass through 30 mesh	USP43-NF38
金黄色葡萄球菌 Staphylococcus aureus	Negative /g	CP2015
Conclusion: The goods conform with USP43-NF38		

