



Address: East of Tianmu Road, Laiyang Development
Zone, Yantai City, Shandong Province, 265200, China

Specification

Product Name:	D-Chiro Inositol Powder		
CAS No.	643-12-9	Molecular Formula	C ₆ H ₁₂ O ₆
Formula Weight	180.16	Pack Size	25kg/drum

Test Item	Specification	Test Method
Appearance	White or off-white crystals of crystalline powder	Visual
Identification	Match with the standard	IR
Assay	97%~103%	HPLC
Optical activity[α] ^{20°C} _D	+63.0°~67.0°, c=1.0 in H ₂ O	Polarimetry
Loss on drying	≤2%	Drying (105°C, 4hr)
Residue on ignition	≤0.5%	Electric furnace (550°C, Overnight)
Chloride	≤0.5%	ICP-MS
Sulfate	≤0.5%	ICP-MS
Related compounds (HPLC,%)		
Total impurities	≤2%	HPLC
Sucrose	≤1%	HPLC
Pinitol	≤1%	HPLC
Glucose(dextrose)	≤1%	HPLC
Fructose	≤1%	HPLC
Myo-inositol	≤1%	HPLC
Unkonw impurity	≤0.1%	HPLC
Heavy Metals	≤10 ppm	ICP-MS
Lead (Pb)	≤1 ppm	ICP-MS
Arsenic (As)	≤1 ppm	ICP-MS
Cadmium (Cd)	≤1 ppm	ICP-MS
Mercury (Hg)	≤0.1 ppm	ICP-MS
Microbiological Tests		
Total Microbial Count	≤100CFU/g	SPC method (PCA)
Mold and Yeast	≤100CFU/g	SPC method (PDA)
E. Coli.	Negative/10g	BGLB method
Salmonella	Negative/10g	RV, TT Broth method

Packing and Storage	
Packing	Packed in paper-drums and two plastic-bags inside. N.W:25kgs/drums.
Storage	Store in a cool and dry place, away from light ,heat and oxygen.
Shelf Life	24 months if sealed and store away from direct sun light.

Note: Non-GMO, Allergen Free, BSE/TSE Free.