

Certificate of Analysis

Product Name: D-Chiro Inositol Powder CAS No.: 643-12-9	
Formula: C ₆ H ₁₂ O ₆ Formula Weight: 180.16	
Production Date: June 3, 2025 Batch No.: S20250603	
Expiry Date: June 2, 2027	Batch Size: 200KG

Test Item	Specification	Result	Test Method
Appearance	White or off-white crystals of crystalline powder	Conforms	Visual
Identification	Match with the standard	Conforms	IR
Assay	97%~103%	99.6%	HPLC
Opical activity[α] ^{20°C} D	+63.0°~67.0°, c=1.0 in H2O	+66.2°	Polarimetry
Loss on drying	≤2%	0.02%	Drying (105°C, 4hr)
Residue on ignition	≤0.5%	0.01%	Electric furnace (550°C, Overnight)
Chloride	≤0.5%	Conforms	ICP-MS
Sulfate	≤0.5%	Conforms	ICP-MS
Related compounds (I	HPLC,%)	•	•
Total impurities	≤2%	0.3%	HPLC
Sucrose	≤1%	Not detected	HPLC
Pinitol	≤1%	Not detected	HPLC
Glucose(dextrose)	≤1%	Not detected	HPLC
Fructose	≤1%	Not detected	HPLC
Myo-inositol	≤1%	Not detected	HPLC
Unkonw impurity	≤0.1%	<0.1%	HPLC
Heavy Metal			
Heavy Metals	≤10 ppm	Conforms	ICP-MS
Lead (Pb)	≤1 ppm	Conforms	ICP-MS
Arsenic (As)	≤1 ppm	Conforms	ICP-MS
Cadmium (Cd)	≤1 ppm	Conforms	ICP-MS
Mercury (Hg)	≤0.1 ppm	Conforms	ICP-MS
Microbiological Tests			
Total Microbial Count	≤100CFU/g	<100CFU/g	SPC method (PCA)
Mold and Yeast	≤100CFU/g	<100CFU/g	SPC method (PDA)
E. Coli.	Negative/10g	Negative	BGLB method
Salmonella	Negative/10g	Negative	RV, TT Broth method
Conclusion	Comply with Required Standards.		
Packing	Packed in paper-drums and two plastic-bags inside. N.W:25kgs/drums.		
Shelf Life	24 months if sealed and store away from direct sun light.		
Storage	Store in a cool and dry place, away from light, heat and oxygen.		

QC Manager: Yanxia Li Analyst: Fan Sun

