



ISO 9001 CERTIFIED  
ISO 13485 CERTIFIED

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CERTIFICATE OF QUALITY

**Product:** MANNITOL  
**Grade:** USP GRADE  
**Code:** 0122  
Appearance: White crystalline powder  
Mol. Formula: HOCH<sub>2</sub>(CHOH)<sub>4</sub>CH<sub>2</sub>OH  
Mol. Weight: 182.17

Description:

<u>Assay:</u>	<u>Min</u>	<u>Max</u>	<u>Units</u>	<u>Disposition</u>
Acidity	PASS		P/F	PASS
Arsenic		1	ppm	PASS
Chloride		0.007	%	PASS
Identification	PASS		P/F	PASS
Loss on Drying		0.3	%	PASS
Melting Range	164	169	Degrees C	PASS
Purity	96.0	101.5	%	PASS
Reducing Sugars	PASS		P/F	PASS
Specific Rotation (1%, Water)	+137	+145	degrees	PASS
Sulfate		0.01	%	PASS

Storage: Store at room temperature. Protect from moisture.

0122USP

This signature indicates that the above material has met all quality specifications and has been reviewed by a quality representative.

Signature:

Title:

QC MANAGER

Date:

6/6/2012