



## Certificate of Analysis

### D-Glucaric Acid Calcium Salt USP

**Catalog Number:** GA1003  
**Lot Number:** 0920801  
**CAS Number:** 5793-89-5  
**Synonym(s):** Calcium D-saccharate tetrahydrate, D-Saccharic acid calcium salt, Calcium D-glucarate  
**Molecular Formula:**  $C_6H_8O_8Ca \cdot 4H_2O$   
**Molecular Weight:** 320.26  
**Storage:** 15°C – 30°C  
**Date of Manufacture:** December 20, 2017  
**Retest Date:** November 30, 2022

Test	Specification	Result
Appearance	White crystalline powder	Conforms
Assay (As $C_6H_8O_8Ca \cdot 4H_2O$ )	98.5 – 102.0%	100.17%
Identification		
IR	To match standard	Conforms
Calcium	Test for calcium	Conforms
Specific Rotation	+18.5 to +22.5°	20.83°
Solubility	Practically insoluble in water, soluble in 5M HCl	Conforms
Chloride	≤ 700ppm	< 700ppm
Sulfate	≤ 1,200ppm	< 1,200ppm
Heavy metals	≤ 20ppm	< 20ppm
Sucrose and reducing sugars	To meet requirements	Conforms
Residual solvents: No solvent used or generated during manufacturing.		

Approved by:

Date: September 20, 2018

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