

Certificate of Analysis

Date of Testing: 2023-10-27 13:56:40
Date of Next Testing: 2026-10-26 13:56:40
Product Name: **2-Keto-D-gluconic acid hemicalcium salt hydrate**
CAS Number: 1040352-40-6
Specifications & Purity: 98%
Lot #: J2325431
SKU #: **K192889**
Analysis: 283229
Storage Temperature: Store at 2-8°C

Parameter	Limit Values	Result
Purity(as Ca)	97.5-102.5 (%)	99.78 %
Water by Karl Fischer	0-14 (%)	1.82 %
Specific Rotation $[\alpha]_{20/D}(c=2 \text{ in H}_2\text{O})$	-72--68 (°)	-70.40°
Appearance (K192889)	white to off-white crystalline powder	white to off-white crystalline powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager