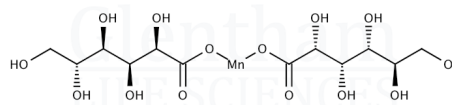


Certificate of Analysis

Product Name Gluconic acid manganese salt
Glentham Code GC6800
CAS Number 6485-39-8
EINECS 229-350-4
PubChem SID 310274151
MDL Number MFCD00867656
Batch Number 276LQF

Molecular Weight 445.24 (anhydrous)
Molecular Formula $C_{12}H_{22}MnO_{14} \cdot xH_2O$
Storage Temp. +20°C



Property	Specification	Batch 276LQF
Physical Description	Pale pink crystalline powder	Pale pink crystalline powder
Identification	A, B according to USP	Conforms
Chloride	≤ 0.05%	0.02%
Sulphate	≤ 0.2%	0.05%
Heavy Metals	≤ 20ppm	Conforms
Lead (Pb)	≤ 10ppm	3ppm
Arsenic (As)	≤ 2ppm	Conforms
Mercury (Hg)	≤ 0.1ppm	Conforms
Cadmium (Cd)	≤ 1ppm	Conforms
Reducing Substances	≤ 1.0%	0.2%
Manganese (Mn)	11.19 - 11.64 % (as hydrate)	11.52%
Water	6.0 - 9.0 %	8.5%
Assay	98.0 - 102.0 % (anhydrous basis)	100.9%
Pharmacopoeia Specification(s)	USP	Conforms

Specification Version v1.0
Manufacture Date 2020-02-25
Re-Test Date 2029-08-03

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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