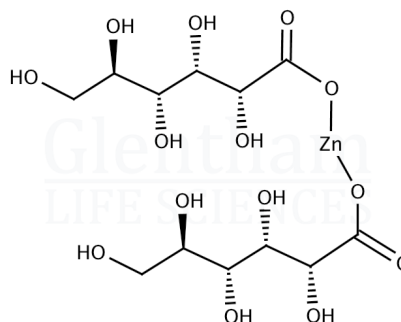


## Certificate of Analysis

Product Name Gluconic acid zinc(II) salt  
Glentham Code GC6411  
CAS Number 4468-02-4  
EINECS 224-736-9  
MDL Number MFCD00868110  
PubChem SID 310274153  
Batch Number 355HSM

Molecular Weight 455.69 (anhydrous)  
Molecular Formula  $C_{12}H_{22}O_{14}Zn \cdot xH_2O$   
Storage Temp. +20°C



Property	Specification	Batch 355HSM
Physical Description	Colourless crystals to white crystalline powder	White crystalline powder
Identification	A, B according to USP	Conforms
Solubility (2% in water)	Clear, colourless solution	Clear, colourless solution
pH (1% in water)	5.5 - 7.5	6.6
Chloride	≤ 0.05%	≤ 0.05%
Sulphate	≤ 0.05%	≤ 0.05%
Cadmium (Cd)	≤ 1ppm	0.22ppm
Lead (Pb)	≤ 5ppm	0.52ppm
Mercury (Hg)	≤ 1ppm	≤ 0.1ppm
Arsenic (As)	≤ 2ppm	≤ 1ppm
Organic Impurities	≤ 1.0%	0.08%
Water	≤ 11.6%	2.15%
Zinc (Zn)	12.90 - 13.56 % (as hydrate)	13.00%
Assay	97.0 - 102.0 % (anhydrous basis)	100.43%
Pharmacopoeia Specification(s)	USP	Conforms

Specification Version v1.0  
Manufacture Date 2021-05-08  
Re-Test Date 2031-07-01

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](http://www.glentham.com) or contact us using the details above for the current version of this document.

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