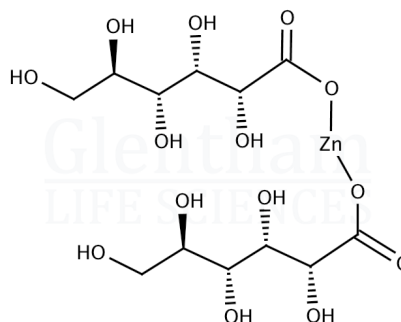


Certificate of Analysis

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 or contact us using the details above for the current version of this document.

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