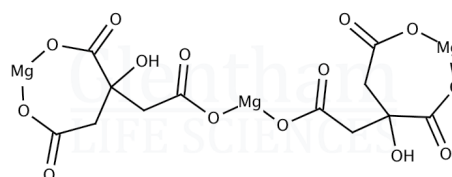


Certificate of Analysis

Product Name Magnesium citrate tribasic hydrate
Glentham Code GK3304
CAS Number 3344-18-1
EINECS 222-093-9
PubChem SID 310275961
Additional CAS 7779-25-1 (anhydr.)
Batch Number 132NOJ

Molecular Weight 451.13 (anhydrous)
Molecular Formula $C_{12}H_{10}Mg_3O_{14} \cdot xH_2O$
Storage Temp. +20°C



Property	Specification	Batch 132NOJ
Physical Description	White to off-white crystalline powder	White crystalline powder
Identification	A, B according to USP	Conforms
pH (5% in water)	5.0 - 9.0	6.7
Chloride	≤ 0.05%	Conforms
Sulphate	≤ 0.2%	Conforms
Iron (Fe)	≤ 200ppm	Conforms
Arsenic (As)	≤ 3ppm	Conforms
Calcium (Ca)	≤ 1.0%	0.009%
Heavy Metals (as Pb)	≤ 50ppm	Conforms
Lead (Pb)	≤ 0.5ppm	≤ 0.01ppm
Loss on Drying	≤ 29.0%	25.2%
Assay (Mg)	14.5 - 16.4 % (dried basis)	15.4%
Pharmacopoeia Specification(s)	USP	Conforms to USP

Specification Version v1.0
Manufacture Date 2015-03-13
Re-Test Date 2029-02-23

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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