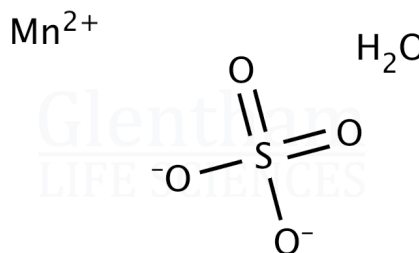


Certificate of Analysis

Product Name	Manganese(II) sulfate monohydrate, EP, USP grade
Glentham Code	GK2450
CAS Number	10034-96-5
EINECS	232-089-9
MDL Number	MFCD00149159
Additional CAS	7785-87-7 (anhydr.)
PubChem SID	310276015
Batch Number	662PRN
Molecular Weight	169.02
Molecular Formula	$\text{MnSO}_4 \cdot \text{H}_2\text{O}$
Storage Temp.	+20°C



Property	Specification	Batch 662PRN
Physical Description	Pale pink crystalline powder	Pale pink crystalline powder
Identification	To pass EP, USP tests	Conforms
Appearance of Solution	To pass EP test	Conforms
Loss on Ignition	10.0 - 12.0 %	10.7%
Heavy Metals	≤ 20ppm	0.65ppm
Chlorides	≤ 100ppm	Conforms
Iron (Fe)	≤ 10ppm	Conforms
Zinc (Zn)	≤ 50ppm	3.15ppm
Substances not ppt. by ammonium sulphide	≤ 0.5%	0.05%
Manganese (Mn)	36.0 - 36.8 % (anhydrous basis)	36.27%
	32.2 - 32.8 % (as-is)	32.4%
Assay	99.0 - 101.0 %	100.0%
Pharmacopoeia Specification(s)	EP, USP	Conforms

Specification Version	v1.1
Manufacture Date	2019-12-17
Re-Test Date	2029-04-30

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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