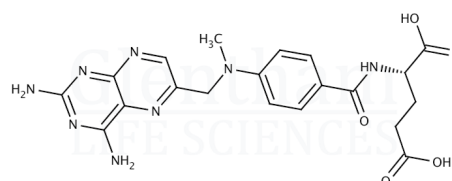


## Product Specification

Product Name	Methotrexate hydrate
Glentham Code	GA6211
CAS Number	133073-73-1
MDL Number	MFCD00150847
Additional CAS	59-05-2
PubChem SID	310276236
Molecular Weight	454.44 (anhydrous)
Molecular Formula	$C_{20}H_{22}N_8O_5 \cdot xH_2O$
Storage Temp.	-20°C



Property	Specification
Physical Description	Yellow to dark yellow powder
Identification (IR)	To conform to structure
Specific Optical Rotation ( $[\alpha]_{20/D}$ )	+18.0 - +23.0 ° (c=0.1, 1M NaOH, anhydrous)
Residue on Ignition	≤ 0.1%
Any Individual Impurity	≤ 0.5%
Total Organic Impurities	≤ 2.0%
Water (KF)	≤ 12.0%
Assay	≥ 98.0%

Specification Version	- v1.1
Date Created	- 2021-12-14

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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