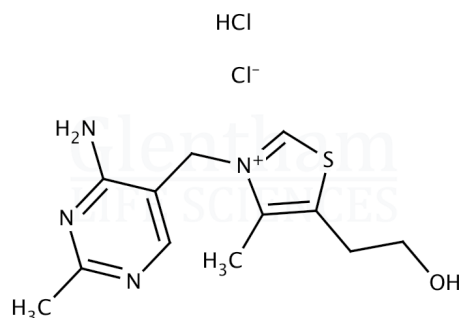


Certificate of Analysis

Product Name	Thiamine hydrochloride, USP grade
Glentham Code	GP8217
CAS Number	67-03-8
EINECS	200-641-8
MDL Number	MFCD00012780
Additional CAS	59-43-8
Batch Number	459SEL
Molecular Weight	337.28
Molecular Formula	$C_{12}H_{17}N_4OS \cdot HCl$
Storage Temp.	+4°C



Property	Specification	Batch 459SEL
Physical Description	White to almost white powder	White powder
Identification (IR)	To conform to standard	Conforms
pH	2.7 - 3.4	3.1
Absorbance of Solution	≤ 0.025	0.01
Limit of Nitrate	To pass test	Conforms
Residue on Ignition	≤ 0.2%	0.04%
Chromatographic Purity	≤ 1.0%	Conforms
Water (KF)	≤ 5.0%	2.2%
Assay	98.0 - 102.0 % (anhydrous basis)	99.4%
Pharmacopoeia Specification(s)	USP	Conforms

Specification Version	v1.0
Manufacture Date	2021-06-18
Re-Test Date	2028-02-16

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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