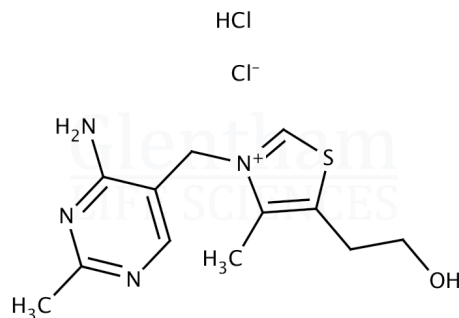


Certificate of Analysis

Product Name	Thiamine hydrochloride, Ph. Eur. grade
Glentham Code	GP0613
CAS Number	67-03-8
EINECS	200-641-8
MDL Number	MFCD00012780
PubChem SID	310280851
Additional CAS	59-43-8
Batch Number	491VSW

Molecular Weight	337.28
Molecular Formula	$C_{12}H_{17}ClN_4OS \cdot HCl$
Storage Temp.	+4°C



Property	Specification	Batch 491VSW
Physical Description	White to almost white crystalline powder	White powder
Identification	To conform to tests A, B, C	Conforms
Solubility (5% in water)	Clear, colourless solution (\leq Y7 or GY7)	Conforms
pH (2.5% in water)	2.7 - 3.3	3.0
Sulphates	\leq 300ppm	Conforms
Impurity A	\leq 0.15%	0.01%
Impurity B	\leq 0.3%	0.01%
Impurity C	\leq 0.15%	0.02%
Any Unspecified Impurity	\leq 0.1%	0.03%
Total Impurities	\leq 0.5%	0.09%
Heavy Metals	\leq 20ppm	Conforms
Sulphated Ash	\leq 0.1%	0.07%
Water	\leq 5.0%	2.9%
Assay	99.0 - 101.0 % (anhydrous basis)	99.5%
Pharmacopoeia Specification(s)	Ph. Eur.	Conforms

Specification Version	v1.2
Manufacture Date	2021-08-10
Re-Test Date	2031-10-05

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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