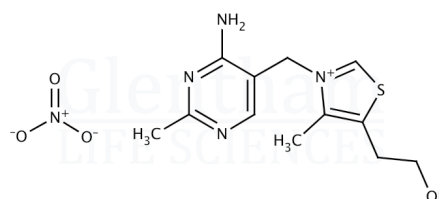


Certificate of Analysis

Product Name	Thiamine nitrate, BP, Ph. Eur. grade
Glentham Code	GV2491
CAS Number	532-43-4
EINECS	208-537-4
MDL Number	MFCD00036330
Batch Number	416ZCX
Molecular Weight	327.36
Molecular Formula	$C_{12}H_{17}N_5O_4S$
Storage Temp.	+20°C



Property	Specification	Batch 416ZCX
Physical Description	Colourless crystals or white to almost white crystalline powder	Conforms
Identification (IR)	To conform to standard	Conforms
Identification	B, C according to EP	Conforms
Solubility (2% in water)	Clear solution, colour ≤ Y7	Conforms
pH (2% in water)	6.8 - 7.6	7.3
Impurity A (HPLC)	≤ 0.15%	0.11%
Impurity B (HPLC)	≤ 0.6%	0.01%
Impurity C (HPLC)	≤ 0.4%	0.01%
Any Individual Impurity (HPLC)	≤ 0.1%	0.03%
Total Impurities (HPLC)	≤ 1.0%	0.2%
Heavy Metals	≤ 20ppm	Conforms
Sulphated Ash	≤ 0.1%	0.06%
Loss on Drying	≤ 1.0%	0.2%
Assay	98.0 - 101.0 % (dried substance)	99.6%
Pharmacopoeia Specification(s)	BP, Ph. Eur.	Conforms

Specification Version	v1.0
Manufacture Date	2021-04-08
Re-Test Date	2030-10-14

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 or contact us using the details above for the current version of this document.

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