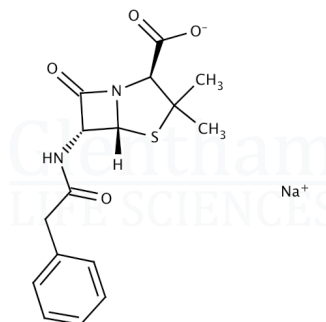


Certificate of Analysis

Product Name	Penicillin G sodium salt
Glentham Code	GA9328
CAS Number	69-57-8
EINECS	200-710-2
MDL Number	MFCD00069666
Additional CAS	61-33-6 (free acid)
PubChem SID	310278565
Batch Number	269TWB

Molecular Weight	356.37
Molecular Formula	$C_{16}H_{17}N_2NaO_4S$
Storage Temp.	+4°C



Property	Specification	Batch 269TWB
Physical Description	White to off-white crystalline powder	White powder
Assay	96.0 - 102.0 % (anhydrous)	98.5%
Solubility	Very soluble in water, practically insoluble in fatty oils and in liquid paraffin	Conforms
Identification	A, B, C, D	Conforms
pH	5.5 - 7.5 (2g/20ml in water)	6.6
Specific Optical Rotation	+285 - +310 ° (anhydrous)	+296.0°
Absorbance	264nm: 0.80 - 0.88	0.81
	280nm: ≤ 0.10	0.04
	325nm: ≤ 0.10	0.05
Individual Impurity	≤ 1.0%	Conforms
2-Ethylhexanoic acid	≤ 0.5%	Not detected
Loss on Drying	≤ 1.0%	0.10%
Bacterial Endotoxins	≤ 0.16IU/mg	Conforms
Pharmacopoeia Specification(s)	BP	Conforms
Potency	≥ 1645IU/mg (dried basis)	1658IU/mg

Specification Version	v1.0
Manufacture Date	2021-12-26
Re-Test Date	2030-04-13

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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