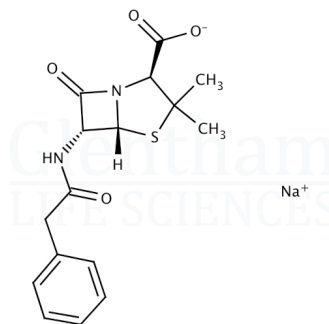


Product Specification

Product Name	Penicillin G sodium salt, Ph. Eur. grade
Glentham Code	GP0953
CAS Number	69-57-8
EINECS	200-710-2
MDL Number	MFCD00069666
Additional CAS	61-33-6 (free acid)
Molecular Weight	356.37
Molecular Formula	$C_{16}H_{17}N_2NaO_4S$
Storage Temp.	+4°C



Property	Specification
Physical Description	White or almost white crystalline powder
Identification	A, B, C, D according to Ph. Eur.
Solubility (10% in water)	Clear, colourless solution
pH (10% in water)	5.5 - 7.5
Specific Optical Rotation ($[\alpha]_{20/D}$)	+285 - +310 ° (c=2, water)
Absorbance	264nm: 0.80 - 0.88 280nm: ≤ 0.10 325nm: ≤ 0.10
Related Substances	Impurity E: $\leq 2.0\%$ Impurity F: $\leq 1.0\%$ Impurity B: $\leq 0.5\%$ Impurity A: $\leq 0.2\%$ Impurity C: $\leq 0.2\%$ Impurity D: $\leq 0.2\%$ Impurity G: $\leq 0.2\%$ Impurity H: $\leq 0.2\%$ Any other impurity: $\leq 0.2\%$ Total impurities: $\leq 3.0\%$
2-Ethylhexanoic acid	$\leq 0.5\%$
Loss on Drying	$\leq 1.0\%$ (105 °C)
Assay (HPLC)	96.0 - 101.0 % (dried basis)
Potency	$\geq 1645IU/mg$ (dried basis)
Pharmacopoeia Specification(s)	Ph. Eur.

Specification Version - v1.2
Date Created - 2024-04-29

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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