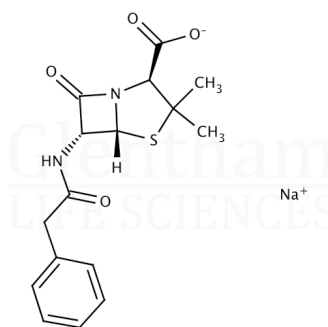


Certificate of Analysis

Product Name	Penicillin G sodium salt, Ph. Eur. grade
Glentham Code	GP0953
CAS Number	69-57-8
EINECS	200-710-2
Numéro MDL	MFCD00069666
CAS supplémentaire	61-33-6 (free acid)
Batch Number	468CQY
Molecular Weight	356.37
Molecular Formula	$C_{16}H_{17}N_2NaO_4S$
Storage Temp.	+4°C



Property	Specification	Batch 468CQY
Physical Description	White or almost white crystalline powder	White crystalline powder
Identification	A, B, C, D according to Ph. Eur.	Conforms
Solubility (10% in water)	Clear, colourless solution	Conforms
pH (10% in water)	5.5 - 7.5	7.1
Specific Optical Rotation ($[\alpha]_{20/D}$)	+285 - +310 ° (c=2, water)	+307°
Absorbance	264nm: 0.80 - 0.88	0.81
	280nm: ≤ 0.10	0.01
	325nm: ≤ 0.10	0.01
Related Substances	Impurity E: ≤ 2.0%	Not detected
	Impurity F: ≤ 1.0%	Not detected
	Impurity B: ≤ 0.5%	Not detected
	Impurity A: ≤ 0.2%	Not detected
	Impurity C: ≤ 0.2%	Not detected
	Impurity D: ≤ 0.2%	Not detected
	Impurity G: ≤ 0.2%	Not detected
	Impurity H: ≤ 0.2%	Not detected
	Any other impurity: ≤ 0.2%	0.06%
	Total impurities: ≤ 3.0%	0.14%
2-Ethylhexanoic acid	≤ 0.5%	Conforms
Loss on Drying	≤ 1.0% (105 °C)	0.13%
Assay (HPLC)	96.0 - 101.0 % (dried basis)	100.0%
Potency	≥ 1645IU/mg (dried basis)	1670IU/mg
Pharmacopoeia Specification(s)	Ph. Eur.	Conforms

Specification Version	v1.2
Manufacture Date	2024-05-23
Re-Test Date	2031-09-12

Certificate of Analysis

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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