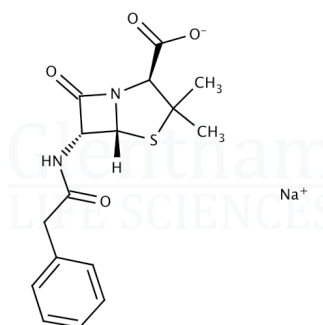


Certificate of Analysis

Product Name	Penicillin G sodium salt, Ph. Eur. grade
Glentham Code	GP0953
CAS Number	69-57-8
EINECS	200-710-2
MDL-Nummer	MFCD00069666
Zusätzliche CAS	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.	Entspricht
Solubility (10% in water)	Clear, colourless solution	Entspricht
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%	Entspricht
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.	Entspricht

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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