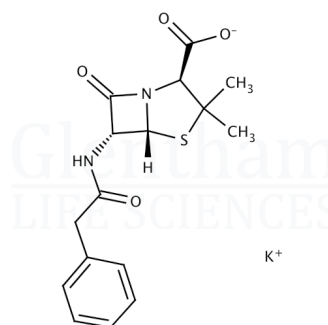


Certificate of Analysis

Product Name	Penicillin G potassium salt
Glentham Code	GA2106
CAS Number	113-98-4
EINECS	204-038-0
MDL Number	MFCD00036193
Additional CAS	61-33-6 (free acid)
PubChem SID	310278563
Batch Number	673KDJ

Molecular Weight	372.48
Molecular Formula	$C_{16}H_{17}KN_2O_4S$
Storage Temp.	+4°C



Property	Specification	Batch 673KDJ
Physical Description	White to off-white crystalline powder	White crystalline powder
Identification	A, B, C, D	Conforms
Solubility	Very soluble in water, practically insoluble in fatty oils and in liquid paraffin	Conforms
pH	5.5 - 7.5 (2g/20ml in water)	6.7
Specific Optical Rotation ($[\alpha]_{20/D}$)	+270 - +300 ° (dried, c=2, water)	+287°
Absorbance	264nm: 0.80 - 0.88	0.88
	280nm: ≤ 0.10	0.05
	325nm: ≤ 0.10	0.05
Any Individual Impurity	≤ 1.0%	0.06%
Loss on Drying	≤ 1.0%	0.1%
Bacterial Endotoxins	≤ 0.16IU/mg	≤ 0.16IU/mg
Assay	96.0 - 102.0 % (dried substance)	99.3%
Pharmacopoeia Specification(s)	BP	Conforms

Specification Version	v1.1
Manufacture Date	2024-06-25
Re-Test Date	2032-07-19

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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