


Specification

Penicillin G Potassium Salt *BioChemica*

A1837

Physical Description:	Solid
Product Code:	A1837
Product Name:	Penicillin G Potassium Salt <i>BioChemica</i>
Specifications:	<p>Assay (HPLC): min. 98 %</p> <p>α20°C/D; 1 %, H₂O: +285° - +295°</p> <p>pH (5 %; H₂O): 5.5 - 7.5</p> <p>Potency (calc. on dried substance): min. 1440 U/mg</p> <p>Water (K.F.): max. 1 %</p>
Hazard pictograms	
WGK:	1
Storage:	RT
Signal Word:	Attention
GHS Symbols:	GHS07
H Phrases:	H317
P Phrases:	<p>P261</p> <p>P280</p> <p>P321</p> <p>P333+P313</p> <p>P362+P364</p> <p>P501</p>
Molecular Formula:	C ₁₆ H ₁₇ KN ₂ O ₄ S
M:	372.48 g/mol

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CAS:	113-98-4
EINECS:	204-038-0
CS:	29411000
<p>Comment</p> <p>Penicillin G was isolated from <i>Penicillium notatum</i>. The bactericidal effect of this β-lactam antibiotic is based on the irreversible inhibition of transpeptidase, interfering with the biosynthesis of the cell wall in bacteria. Stability: Penicillin G potassium salt is readily water-soluble. The dry substance can be stored at room temperature or $+4^{\circ}\text{C}$ and is stable for about 5 years. The buffered solution (pH 4.5 - 7) loses 5 % of its activity after 20 days at $+4^{\circ}\text{C}$. Storage of the solution at room temperature results in a 5 % loss of activity after 48 hours, after 7 days in a 10 % loss and after 14 days it results in a loss of 20 - 50 %. The stability in an unbuffered solution is much lower ($+4^{\circ}\text{C}$ approx. 3-7 days).</p>	

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