


Specification

Colistin Sulfate *BioChemica*

A2922

Physical Description:	Solid
Product Code:	A2922
Product Name:	Colistin Sulfate <i>BioChemica</i>
Specifications:	Assay (HPLC): min. 77 % pH (1 %; H ₂ O): 4.0 - 6.0 Loss on drying: max. 3.5 % Sulfate: 16 - 18 %
Hazard pictograms	
UN:	2811
Class/PG:	6.1/III
ADR:	6.1/III
IMDG:	6.1/III
IATA:	6.1/III
WGK:	1
Storage:	RT protected from light
Signal Word:	Danger
GHS Symbols:	GHS06
H Phrases:	H301
P Phrases:	P264 P301+P310

AppliChem GmbH

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Specification

Colistin Sulfate *BioChemica*

A2922

	P321
	P330
	P405
	P501
Molecular Formula:	$C_{53}H_{104}N_{16}O_{21}S_2$
M:	1365.64 g/mol
CAS:	1264-72-8
CS:	29419000
<p>Comment</p> <p>Colistin was isolated from filtrates of <i>Bacillus colistinus</i> and is identical to Polymyxin E (mainly E1 and E2). It is a cyclic pentapeptide with a pentapeptide side chain. Colistin is active only against proliferating and non-proliferating gram negative organism. It interacts with phospholipids of the cytoplasmic membrane of bacteria and permeabilizes them. The efflux of essential components explains its bactericidal activity on non-proliferating organisms. The bactericidal activity will be reduced by divalent ions (Fe^{2+}, Mn^{2+}, Ca^{2+}, Mg^{2+}), unsaturated fatty acids and polyphosphates. Stability: A high stability is observed at pH values between 2 and 6. At pH values above 6.0, a slow inactivation occurs (pH 9, 24 hours, 50 % inactivation). At pH 2, only 1 % will be inactivated within 24 hours. Solutions with a concentration of 10 mg/ml are stable at +4°C for more than 10 - 14 days.</p>	

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