

Chem-Impex International, Inc.

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825 Dillon Drive

Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number	00068
Lot Number	001204-1704063
Product	Colistin sulfate, nonsterile Polymyxin E sulfate
CAS Number	1264-72-8
Molecular Formula	C ₅₃ H ₁₀₀ N ₁₆ O ₁₃ •H ₂ SO ₄
Molecular Weight	1267.53

Appearance	White to almost white hygroscopic powder
Solubility	Freely soluble in Water, practically insoluble in Acetone and in 96% Ethanol.
Anion	Sulphate: 16.7%
pH	4.91
Optical Rotation	[α] _D ²⁰ = -71°
Loss on Drying	2.4%
Related Substances	Total impurities: 15.6% Any single impurity: 3.3% Impurity I: 1.6% Impurity II: 1.7% Impurity III: 1.8% Impurity IV: 2.4% Impurity V: 1.2% Impurity VI: 3.3%
Sulfated Ash	0.27%
Assay	23053 IU/mg (Dried substance)
Assay (as is)	22500 IU/mg
Storage	Store at 0-8 °C
Additional Information	HPLC composition (Dried substance): Sum of polymyxins E1, E2, E3, E1-I and E1-7MOA: 85.4% Polymyxin E3: 5.2% Polymyxin E1-I: 0.59% Polymyxin E1-7MOA: 3.6%
Manufacturing Date	4/6/2017

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Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

A handwritten signature in black ink, appearing to read 'Bala Kumar', with a stylized flourish at the end.

Bala Kumar
Quality Control Manager