



## Specification

### Colistin Sulfate

<b>Catalog Number:</b>	CS1005
<b>CAS Number:</b>	1264-72-8
<b>Synonym(s):</b>	Polymyxin E sulfate
<b>Molecular Formula:</b>	$C_{45}H_{85}N_{13}O_{10} \cdot H_2SO_4$
<b>Molecular Weight:</b>	820.61
<b>Storage:</b>	2°C – 8°C
<b>Retest Period:</b>	Three years from the date of manufacture

Test	Specification
Appearance	White to off-white powder
Assay (Anhydrous)	$\geq 19000$ IU/mg
Specific Rotation	-63° to -73°
Solubility	Freely soluble in water, insoluble in EtOH
pH	4.0 – 6.0
Moisture (LOD)	$\leq 3.5\%$
Sulfated Ash	$\leq 1.0\%$
Sulfate	16.0% - 18.0%
Related Substances	
Total Impurities	$\leq 23\%$
Any Single Impurity	$\leq 4.0\%$
Impurity I	$\leq 3.0\%$
Impurity II	$\leq 4.0\%$
Impurity III	$\leq 3.0\%$
Impurity IV	$\leq 3.0\%$
Impurity V	$\leq 3.0\%$
Impurity VI	$\leq 4.0\%$
HPLC Composition (Anhydrous):	
Polymixins (E1,E2,E3,E1-1, E1-7MOA)	$\geq 77.0\%$
Polymixin E3	$\leq 10.0\%$
Polymixin E1-1	$\leq 10.0\%$
Polymixin E1-7MOA	$\leq 10.0\%$

Approved:

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