



## Colistin Sulfate

Mostly effective against gram-negative bacteria

Colistin Sulfate Powder a polypeptide antibiotic, is effectively targeting Gram-negative bacteria, resistant to other drugs. It disrupts their cell membranes, leading to cell death, which usually treats conditions such as pneumonia or urinary tract infections.

In clinical, Colistin Sulfate Powder be used as a last-resort treatment for multidrug-resistant infection, particularly in critically ill patient.

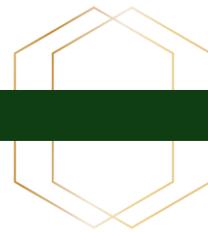
Lab settings reliance on Colistin Sulfate Powder for susceptibilities testing guiding treatment plans by the determination of bacterial response to this antibiotic.

Furthermore, Colistin Sulfate Powder is played a vital role, in veterinary medicine, for treating bacterial infections in livestock and poultry.

Although generally well-tolerations, Colistin Sulfate Powders may cause side effect such as kidney damages and neurotoxicity which require careful monitoring during treatments.

Despite its effectiveness, concerns are growing over the rising of Colistin-resistant bacterial because of its widespread usage.

Cat. Number	AS-2029
CAS Number	1264-72-8
MDL Number	MFCD00146495
Pubchem	310270455
Molecular Weight	1266.73 g/mol
Molecular Formula	C <sub>53</sub> H <sub>102</sub> N <sub>16</sub> O <sub>17</sub> S
Storage Temperature	+4°C
Form and Color	Powder to Crystalline powder / White to off-white to pale yellow
Purity (HPLC – sum of Polymyxins)	≥ 77%
Potency	≥ 19000 U/mg (dried basis)
pH (1% solution)	4 - 6
Sulphated Ash	≤ 1%



Water Content  $\leq 15\%$

$^1\text{H-NMR}$  Spectrum Corresponds to assigned spectrum

Synonym Polymyxin E