

# Specification

Technical Data Sheet

**CAS****1264-72-8****STORAGE****2 to 8 °C****MOLECULAR WEIGHT****1253.51****PRODUCT****Colistin Sulfate (MWE)**

|                          |                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------|
| <b>Product number</b>    | 90038270                                                                                         |
| <b>CAS number</b>        | 1264-72-8                                                                                        |
| <b>Molecular formula</b> | C <sub>52</sub> H <sub>98</sub> N <sub>16</sub> O <sub>13</sub> · H <sub>2</sub> SO <sub>4</sub> |
| <b>Molecular weight</b>  | 1253.51 g/mol                                                                                    |

**PARAMETER****SPECIFICATION**

|                                  |                                                            |
|----------------------------------|------------------------------------------------------------|
| <b>Appearance</b>                | White or slight yellow powder                              |
| <b>Loss on Drying</b>            | ≤3.5%                                                      |
| <b>pH</b>                        | 4.0 - 6.0                                                  |
| <b>Salmonella</b>                | Absence                                                    |
| <b>Escherichia coli</b>          | Absence                                                    |
| <b>Solubility</b>                | Freely soluble in water, slightly soluble in ethanol (96%) |
| <b>Sulphated Ash</b>             | ≤1.0%                                                      |
| <b>Total Aerobic Bacteria</b>    | ≤1000cfu/g                                                 |
| <b>Total Impurities</b>          | ≤11.0%                                                     |
| <b>Total Yeast &amp; Mould</b>   | ≤100cfu/g                                                  |
| <b>Any Unidentified Impurity</b> | ≤2.5%                                                      |
| <b>Potency (Dry Basis)</b>       | ≥ 19000 IU/mg                                              |
| <b>Sulfate (on dried basis)</b>  | 16.0 - 18.0%                                               |

**SPECIFICATION  
STATEMENT**

The values stated above represent the standard specification for this product, issued under **Molekula Ltd**'s quality management system. Batch-specific results are provided on the Certificate of Analysis.

|                |                                                                                                |
|----------------|------------------------------------------------------------------------------------------------|
| <b>STORAGE</b> | Store as indicated on the product label, away from light, moisture and incompatible materials. |
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