



## Product Specification

### MAGNESIUM SULPHATE FOR MOLECULAR BIOLOGY

|                                    |  |
|------------------------------------|--|
| <b>PRODUCT CODE</b>                | <b>959580</b>  |
| <b>SYNONYMS</b>                    | --   |
| <b>C.I. NO.</b>                    | --   |
| <b>CASR NO.</b>                    | <b>(10034-99-8)</b>  |
| <b>ATOMIC OR MOLECULAR FORMULA</b> | <b>MgSO<sub>4</sub>·7H<sub>2</sub>O</b>  |
| <b>ATOMIC OR MOLECULAR WEIGHT</b>  | <b>246.47</b>  |
| <b>PROPERTIES</b>                  | Loses 4H <sub>2</sub> O at 70 -80°C; loses 5 H <sub>2</sub> O at 100°C; loses 6 H <sub>2</sub> O at 120°C; loses last H <sub>2</sub> O at 250°C; Noncombustible. |

## MgSO<sub>4</sub>·7H<sub>2</sub>O

| <b>PARAMETER</b>                              | <b>LIMIT</b>                                   |
|---|--|
| Description                                   | Colourless efflorescent crystalline powder.    |
| Solubility                                    | 10% solution in water is clear and colourless. |
| Minimum Assay<br>(Complexometric)             | 99.5%  |
| pH ( 5% solution in water)                    | 5 - 8  |
| Max. Abs. 1 M aq. Soln.<br>at 260 nm – 280 nm | 0.02   |

### MAXIMUM LIMIT OF IMPURITIES

|                              |                |
|------------------------------|----------------|
| Insoluble in water           | 0.003%         |
| Chloride (Cl)                | 0.0002%        |
| Nitrate (NO <sub>3</sub> )   | 0.001%         |
| Phosphate (PO <sub>4</sub> ) | 0.001%         |
| Copper (Cu)                  | 0.0002%        |
| Iron (Fe)                    | 0.0001%        |
| Heavy metals (as Pb)         | 0.0002%        |
| Potassium (K)                | 0.005%         |
| Sodium (Na)                  | 0.005%         |
| RNases,DNases,Protease       | None detected. |

### Note(s) : Assay (if applicable) method mentioned

#### WARNING

**Hazard statements** : Causes eye irritation

#### Precautionary statements

**Prevention** : Wash hands thoroughly after handling.

**Response** : If eye irritation persists, get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Disposal**: --

Hazard Pictogram(s) :

IMDG Code :--

UN No. :--

IATA :--