



BLUECRAFT AGRO PRIVATE LIMITED.
FORMERLY KNOWN AS GAYATRI BIOORGANICS LTD.

SORBITOL SOLUTION 70% I.P (NON-CRYSTALLISING) SPECIFICATION

| Sl. | Tests | Specification |
|-----|----------------------------------|--|
| 1 | Description | Clear, Colourless or Faintly Yellow, Syrupy Liquid. |
| 2 | Identification | A. as per I.P |
| | | B. as per I.P |
| | | Optical Rotation +1.50 ⁰ to +3.50 ⁰ C. as per I.P |
| 3 | Appearance of Solution | As per I.P |
| 4 | Conductivity | Not more than 10 $\mu\text{S cm}^{-1}$ |
| 5 | Lead | Not more than 0.5 ppm |
| 6 | Nickel | Not more than 1.0 ppm. |
| 7 | Reducing Sugars | Shall require not less than 12.8 ml of 0.05M Sodium Thiosulphate. |
| | | |
| 8 | Reducing Sugars after hydrolysis | Shall require not less than 8.0 ml of 0.05M Sodium ThioSulphate. |
| 9 | Water | Not less than 28.0% and Not more than 32.0% |
| 10 | Assay for Solid matter | 68 to 72% w/w |
| 11 | D - Glucitol (Polyols) | 72 - 92 % w/w (on anhydrous basis.) |
| 12 | Storage | Store Procted from Moisture |

Methods as per I.P. 2014

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SORBITOL SOLUTION 70% BP (NON CRYSTALLIZING)

| Sl. | Parameter | Specification |
|-----|---|---|
| 1 | Description (characteristic) | Clear, Colourless, syrupy Liquid Miscible with water. |
| 2 | Identification (A) HPLC Chromatogram (B) Optical Rotation (C) Clarity @ 25 deg C | As per Test +1.5° to +3.5° Clear, syrupy liquid at a temperature of 25°C. |
| 3 | Appearance of solution | The Solution is Clear and Colour Less. |
| 4 | Conductivity | Maximum 10 IJS/cm measured on the undiluted liquid sorbitol at temp of 20 deg c |
| 5 | Lead | 0.5 ppm (Max) |
| 6 | Nickel | 1.0 ppm (Max) |
| 7 | Reducing Sugars | Not less than 12.8 ml of 0.05M Sodium Thiosulphate |
| 8 | Reducing Sugars after Hydrolysis(%) | Not less than 8.0 ml of 0.05M Sodium Thiosulphate |
| 9 | Water | 28.0 % to 32.0 % |
| 11 | Assay (dry Solid) | Anhydrous Substance 68% to 72 m/m |
| 12 | Assay (as D-Glucitol or D-Sorbitol) | 72% to 92% as D-Glucitol or D-Sorbitol (Anhyduos Substance) |

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PRODUCT NAME : **SORBITOL SOLUTION 70% USP**

| SL. NO | Characteristics | Specifications |
|--------|---------------------|--|
| 1 | Description | Clear, Colour less, Syrupy Liquid, Taste Sweet |
| 2 | Specific gravity | Min 1.285 at 25 deg C |
| 3 | Refractive Index | Between 1.455 to 1.465 at 20 deg C |
| 4 | water | Between 28.5 to 31.5% |
| 5 | Residue on ignition | Max 0.10% |
| 6 | Chlorides | Max 0.005% |
| 7 | Sulphates | Max 0.01% |
| 8 | Arsenic | Max 2.5 ppm |
| 9 | Heavy - Metals | Max 0.001% |
| 10 | Reducing Sugars | N.M.T. 50mg Cuprous Oxide |
| 11 | Assay | N.L.T. 64.0% |

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