

CERTIFICATE OF ANALYSIS

Sorbitol Solution 70% USP NF (Crystalline)

Description

Sorbitol Solution is used in a wide variety of oral care, pharmaceutical, soaps, paints, food, confections, industrial applications. Typically, sorbitol solution is used as a bulking agent, sweetener, and humectant.

Batch Details

Batch No. 1920P568

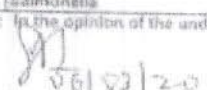
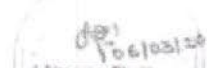
Manufacturing date : 28 - Feb - 2020

No. of Container with Quantity

Batch size : 22000.00 Kg

Expiry date : 27 - Feb - 2025

..... 80 x 275.00 Kg

| S. NO | TEST | SPECIFICATION | RESULT |
|---|---|---|---------------------------|
| 1 | Appearance | Clear, Colourless, Syrupy, Miscible with water | Passes the test |
| 2 | Sensory analysis | To pass the test | Passes the test |
| 3 | Solubility | Miscible With Water | Passes the test |
| 4 | Identification | | |
| | A. By Color formation | To pass the test | Passes the test |
| | B. By HPLC | To pass the test | Passes the test |
| | C. Limit of Diethylene Glycol and Ethylene Glycol | | |
| | (1) Diethylene Glycol | Max. 0.10 % | Not detected |
| | (2) Ethylene Glycol | Max. 0.10 % | Not detected |
| 5 | Specific Gravity at 25 deg. C | To pass the test Min. 1.2970 | Passes the test 1.3004 |
| 6 | Refractive Index at 20 deg. C | Between 1.4570 and 1.4620 | 1.4595 |
| 7 | Conductivity | Max. 10 $\mu\text{S/cm}^{-1}$ | 0.5 $\mu\text{S/cm}^{-1}$ |
| 8 | Reducing Sugars | Max. 0.3% | Passes the test |
| 9 | Total Sugars | Max. 2.90% | 2.4% |
| 10 | Residual on Ignition | Max. 0.020% | Less than 0.020% |
| 11 | pH(20%aq. Sol.) pH of water - 6.0 | Between 5.0 to 7.5 | 6.2 |
| 12 | Lead | Max. 0.5 ppm | Not detected |
| 13 | Nickel | Max. 1.0 ppm | Complies |
| 14 | Sulphated Ash | Max. 0.100% | 0.018% |
| 15 | Arsenic (As) | Less than 1.00 ppm | Less than 1.00 ppm |
| 16 | Heavy Metals (as Pb) | Less than 1.00 ppm | Less than 1.00 ppm |
| 17 | Chlorides | Less than 50.00 ppm | Less than 50.00ppm |
| 18 | Sulphates | Less than 100.00 ppm | Less than 100.00 ppm |
| 19 | Water | Between 28.0 % and 30.5 % | 29.3% |
| 20 | Assay 100 % DS | Not less than 92.00% | 92.6% |
| 21 | Assay 70% Dry Solid | Not less than 64.40 % | 65.2% |
| 22 | Dry Substance (Total Solid) | Between 69.5 % to 71.5% | 70.5% |
| 23 | Hexitols | Not less than 68.00% | 69.2% |
| 24 | D-Mannitol | Max. 3.0% | 1.7% |
| 25 | Microbiology | | |
| | Total Aerobic Microbial count | Less than 1000 cfu / gm | < 10 cfu / gram |
| | Total Mold and Yeast | Max. 20 cfu / ml | < 10 cfu / ml |
| | Staphylococcus Aureus | Should be absent | Absent |
| | Coliforms | Should be absent | Absent |
| | E.Coli | Negative | Negative |
| | Salmonella | Negative | Negative |
| REMARKS: In the opinion of the undersigned, this product complies as per above specification. | | | |
|  (Ashok Yadav) ANALYSED BY | |  (Anamika Bhal) LAB INCHARGE | |