

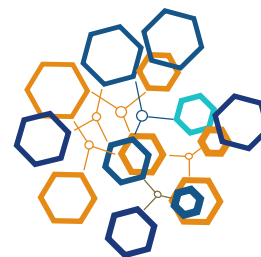


# SISCO CHEM

Laboratory Chemicals & Reagents

CIN No: U24110MH1998PTC114594

ISO 9001:2015 Certified company



## CERTIFICATE OF ANALYSIS

|                          |                |                         |  |
|--------------------------|----------------|-------------------------|--|
| <b>Product Name</b>      | <b>SUCROSE</b> |                         |  |
| <b>Synonyms</b>          | SUGAR          |                         |  |
| <b>Grade</b>             |                |                         |  |
| <b>CAS No</b>            | 57-50-1        |                         |  |
| <b>Molecular Formula</b> | C12H22O11      |                         |  |
| <b>Molecular weight</b>  | 342.30         |                         |  |
| <b>Batch No.</b>         |                | <b>Date of Analysis</b> |  |
| <b>Code No.</b>          |                | <b>Date of Retest</b>   |  |

| Sr. | Test                     | Specifications  | Results                  |
|-----|--------------------------|---|--------------------------|
| 1   | Appearance               | Colourless Crystals or white crystalline powder                                   | White crystalline powder |
| 2   | Identification           | An orange precipitate is formed immediately                                       | Passes the test          |
| 3   | Acidity / Alkalinity     | NMT 0.5 ml of 0.01 N NaOH should require to change the colour of solution to pink | 0.3 ml of 0.01 N NaOH    |
| 4   | Heavy Metals             | NMT 10 ppm  | Complies                 |
| 5   | Calcium                  | Test solution should remain clear for atleast 1 min                               | Passes the test          |
| 6   | Barium                   | No opalescence on standing for 1 hr   | Passes the test          |
| 7   | Sulphate                 | Blue colour develops  | Passes the test          |
| 8   | Glucose and invert sugar | The blue colour does not disappear completely                                     | Passes the test          |
| 9   | Sulphated Ash            | NMT 0.1%  | 0.030%                   |
| 10  | Colouring matter A       | No unpleasant odor should be detectable after 1 hr                                | Passes the test          |

Chemist by

Q.C. Incharge

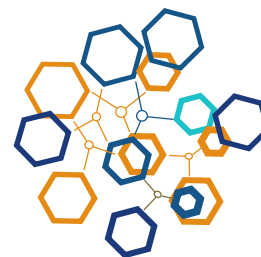


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|    |                          |  |                  |
|----|--------------------------|--|------------------|
| 11 | Colouring matter B       | Any fluorescence is not more intense than that of a solution containing 0.4 microgram/ml of quinine sulphate in 0.005 M sulphuric acid | Passes the test  |
| 12 | Dextrin                  | Solution remains yellow or becomes faint bluish green  | Passes the test  |
| 13 | Bacterial endotoxin      | NMT 0.25% Endotoxin unit per mg of sucrose   | Passes the test  |
| 14 | Identification (A) by IP | Compare the spectrum with that obtained with sucrose IPRS or with the reference spectrum of sucrose                                    | Complies         |
|    | Identification (B) by IP | An orange precipitate is produced immediately  | Complies         |
| 15 | Specific rotations       | + 65.3* to +67*  | 66.64*           |
| 16 | Conductivity             | Max 35 micro s/cm at 20°C  | 25.85 micro s/cm |
| 17 | Sulphites                | Max 10 PPM calculated as SO <sub>2</sub>   | Complies         |
| 18 | Colour value             | Max 45   | 17               |
| 19 | LOD                      | 0.1% Max   | 0.049%           |

The submitted sample complies with the prescribed standards of quality.