

## Certificate of Analysis

|                     |              |
|---------------------|--------------|
| <b>Product Name</b> | Maize Starch |
| <b>Cas No</b>       | 9005-25-8    |

| SR No. | Parameter               | Specification   | Result   |
|--------|-------------------------|---|----------|
| 01     | Appearance              | Matt: white to slightly yellowish, very fine powder, which creaks when pressed between two fingers.   | Complies |
| 02     | Solubility              | Practically insoluble in cold water and in ethanol (96).  | Complies |
| 03     | Identification A        | Microscope Examination: Using a 50% v/v solution of glycerol R. It appears as either polyhedral granules of irregular sizes with diameters ranging from about 2 um to about 23 um or as rounded or spheroidal granules of irregular sizes with diameter ranging from about 25um to about 35um. The Central hilum consists of a distinct cavity or 2 to 5 rayed cleft and there are no concentric striations. Between orthogonally oriented polarizing plates or priss, the starch granules shoe a distinct black cross intersecting at the hilum. | Complies |
| 04     | Identification B        | Heat to boiling for 1 minute a suspension of 1 g in 50 ml of water and cool; a thin and cloudy mucilage is produced.  | Complies |
| 05     | Identification C        | 1 ml of mucilage obtained in identification test B add 0.05ml of iodine solution R1. An orange red to dark blue colour is produced, which disappears on heating   | Complies |
| 06     | pH of 20% suspension    | 4.0 to 7.0  | 6.44     |
| 07     | Foreign Matter          | Examined under a microscope using a 50% V/V solution of glycerol R, not more than traces of matter other than starch granules are present. No starch grains of any other origin are present.  | Complies |
| 08     | Iron                    | Not more than 10 ppm  | Complies |
| 09     | Sulphur dioxide         | 50 ppm Max.   | 30 ppm   |
| 10     | Oxidizing Substance     | 20 ppm Max. calculated as H2O2  | Complies |
| 11     | Sulphated Ash           | 0.6% Max.   | 0.16     |
| 12     | Loss on Drying          | 15.0% (Max.)  | 11.74    |
| 13     | Microbial Contamination | 1.0 g is free from Escherichia coli and Salmonella.   | Complies |
| 14     | TAMC                    | 1000 cfu/gm (Max)   | Nil      |
| 15     | TYMC                    | 100 cfu/gm (Max)  | Nil      |

For Eliteus Global Pvt Ltd.



Authorized Signatory

This is to certify that the above designated material has been tested and did comply with the listed specification (with listed Exceptions) when supplied in original container. The material is subject to the conditions listed on the ELITEUS invoice. The above is a copy of information on file. The lot acceptance data are available for examination. This certificate is valid unsigned.

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**ELITEUS GLOBAL PRIVATE LIMITED**

Plot no 27, Aava Greens, Aava County, Alva, Waghodia, Vadodara GJ 391760  
T. +91 70164 38428 Email: info@arouteinc.com Website: www.eliteusgroup.com