

**Roquette India Pvt.Ltd. Gokak**

**MAIZE STARCH BP**

**Definition**

Maize starch is obtained from the caryopsis of *Zea mays* L.

**Category:** - Pharmaceutical aid.

**Appearance**

Matt, white to slightly yellowish, very fine powder which creaks when pressed between the fingers.

**Identification**

- A. Microscope examination, using a 50 % V/V solution of glycerol R. It appears as either angular polyhedral granules of irregular sizes with diameters ranging from about 2 µm to about 23 µm or as rounded or spheroidal granules of irregular sizes with diameters ranging from about 25 µm to about 35 µm. The central hilum consists of a distinct cavity or 2- to 5 -rayed cleft and there are no concentric striations. Between orthogonally orientated polarising plates or prisms, the starch granules show a distinct black cross intersecting at the hilum.
- B. Suspend 1 gm in 50 ml of water R, boil for 1 min and cool. A thin, cloudy mucilage is formed.
- C. To 1 ml of mucilage obtained in identification test B add 0.05 ml of Iodine solution R1. An orange-red to dark blue colour is produced which disappears on heating.

**SPECIFICATIONS**

TESTS

Solubility Practically insoluble in cold water and in ethanol (96 %)

pH 4.0 to 7.0

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Foreign Matter	Examined under a microscope using a 50 per cent 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.
Oxidizing substance	Maximum 20 ppm, calculated as H <sub>2</sub> O <sub>2</sub>
Sulphur Dioxide	Maximum 50 ppm
Iron	Maximum 10 ppm
Loss on Drying	Maximum 15.0 per cent, determined on 1.000 g by drying in an oven at 130° C for 90 min.
Sulphated Ash	Maximum 0.6 %, determined on 1.0g
Microbial Contamination	TAMC: acceptance criterion 10 <sup>3</sup> CFU/g TYMC: acceptance criterion 10 <sup>2</sup> CFU/g Absence of Escherichia coli Absence of Salmonella

#### **CONFORMITY**

British Pharmacopoeia 2017, Page no: II-947

**Method of analysis:** - as per British Pharmacopoeia 2017, Page no: II-947

<b>Revision History:</b>		
Revision No.	Date of revision	Reason for revision
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1	25.08.2020	Name change from Roquette Riddhi Siddhi to Roquette India(Emblem changed)  Document no.changed from BPSTARCH: 1.4 to CQAGO701EN(Coded as per document control procedure PQAGO001EN)  Authorisation body revised