



Edition: BP 2025 (Ph. Eur. 11.6 update)

Tapioca Starch

[General Notices](#)

Cassava Starch

Action and use

Excipient.

When Starch is specified and the type is not indicated, Maize Starch, Potato Starch, Rice Starch, Wheat Starch or, in tropical and sub-tropical countries where these are not available, Tapioca Starch may be supplied or used.

DEFINITION

Tapioca Starch is obtained from the rhizomes of *Manihot utilissima* Pohl.

CHARACTERISTICS

Very fine powder which creaks when pressed between the fingers.

Practically insoluble in cold [water](#) and in [ethanol \(96%\)](#).

IDENTIFICATION

- A. Principally simple granules, subspherical, muller-shaped or rounded polyhedral; smaller granules 5 to 10 µm, larger granules 20 to 35 µm in diameter; hilum, central, punctate, linear or triradiate; striations, faint, concentric; compound granules, few, of two to three unequal components.
- B. Heat to boiling a suspension of 1 g in 50 mL of [water](#) for 1 minute and cool. A thin, cloudy mucilage is formed.
- C. Mix 0.05 mL of [iodine solution R1](#) with 1 mL of the mucilage obtained in test B. A dark blue colour is produced which disappears on heating and reappears on cooling.

TESTS

Acidity

Add 10 g of the starch to 100 mL of [ethanol \(70%\)](#) previously neutralised to 0.5 mL of [phenolphthalein solution](#), shake for 1 hour, filter and titrate 50 mL of the filtrate with [0.1M sodium hydroxide VS](#). Not more than 2.0 mL is required to change the colour of the solution.

[Foreign matter](#)

Not more than traces of cell membranes and protoplasm are present.

[Loss on drying](#)

When dried to constant weight at 100° to 105°, loses not more than 15.0% of its weight. Use 1 g.

Sulfated ash

Not more than 0.6%, [Appendix IX A, Method II](#). Use 1 g.

Microbial contamination

1.0 g is free from *Escherichia coli*, Appendix XVI B1.

STORAGE

Tapioca Starch should be kept in an airtight container.