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## 21 Author

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## 22 Date of Revision

4 May 2017.

# Starch, Sterilizable Maize

## 1 Nonproprietary Names

USP–NF: Absorbable Dusting Powder

## 2 Synonyms

*Biosorb*; double-dressed, white maize starch; *Fluidamid R444*; *Keoflo ADP*; *Meritena*; modified starch dusting powder; *Pure-Dent*; starch-derivative dusting powder; sterilizable corn starch.

## 3 Chemical Name and CAS Registry Number

Sterilizable maize starch

## 4 Empirical Formula and Molecular Weight

$(C_6H_{10}O_5)_n$  where  $n = 300\text{--}1000$ .

Sterilizable maize starch is a modified corn (maize) starch that may also contain up to 2.0% of magnesium oxide.

See also Starch.

## 5 Structural Formula

See Starch.

## 6 Functional Category

Lubricant.

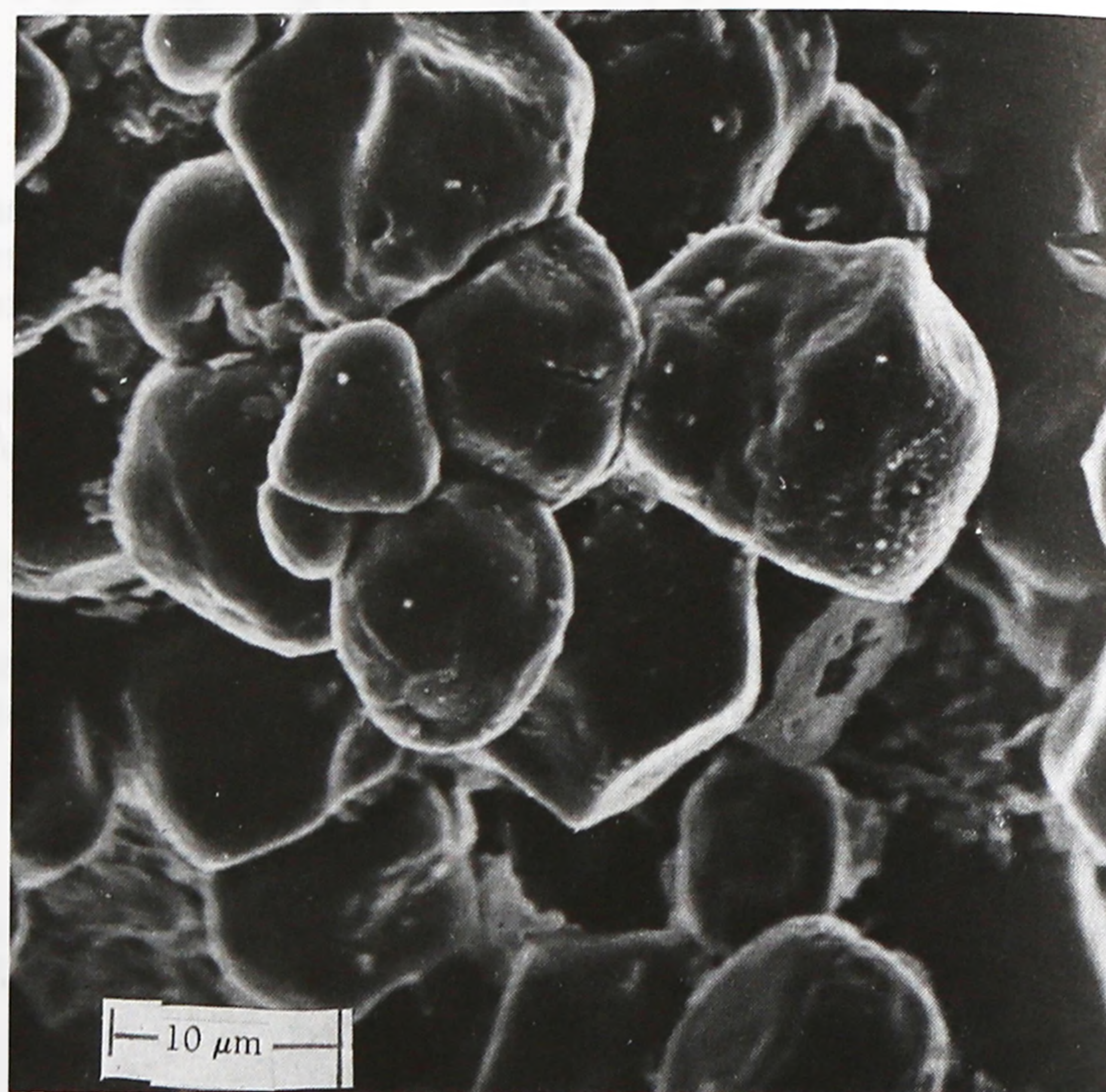
## 7 Applications in Pharmaceutical Formulation or Technology

Sterilizable maize starch is a chemically or physically modified corn (maize) starch that does not gelatinize on exposure to moisture or steam sterilization. Sterilizable maize starch is primarily used as a lubricant for examination and surgeons' gloves, although because of safety concerns unlubricated gloves are now generally recommended; see Section 14. It is also used as a vehicle for medicated dusting powders.

## 8 Description

Sterilizable maize starch occurs as an odorless, white, free-flowing powder. Particles may be rounded or polyhedral in shape.

**SEM 1:** Excipient: sterilizable maize starch; manufacturer: Ingredient Incorporated; magnification: 2000 $\times$ .



## 9 Pharmacopeial Specifications

See Table I.

**Table I:** Pharmacopeial specifications for sterilizable maize starch.

Test	USP 40–NF 35 S1
Identification	+
Stability to autoclaving	+
Sedimentation	+
pH (1 in 10 suspension)	10.0–10.8
Loss on drying	≤12%
Residue on ignition	≤3.0%
Magnesium oxide	≤2.0%
Heavy metals	≤0.001%