

# GLUCOSE ISOMERASE from *BACILLUS COAGULANS*

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## SYNONYMS

Xylose isomerase

## SOURCES

Produced by the controlled fermentation of *Bacillus coagulans*

Active principles

Xylose isomerase (glucose isomerase)

Systematic names and numbers

D-Xylose ketol-isomerase (EC 5.3.1.5)

Reactions catalyzed

D-Xylose and D-glucose are converted to D-xylulose and D-fructose, respectively

## DESCRIPTION

Off-white to brown granules (immobilized preparation) or liquids, insoluble in water (granules), ethanol, chloroform and ether  
The immobilized preparations are rendered insoluble in water by treatment with gelatine (carrier) and glutaraldehyde (immobilization agent).

## FUNCTIONAL USES

Enzyme preparation  
Used in the preparation of high fructose corn syrup and other fructose starch syrups.

## GENERAL SPECIFICATIONS

Must conform to the *General Specifications for Enzyme Preparations used in Food Processing* (see Volume Introduction)

## CHARACTERISTICS

### IDENTIFICATION

Glucose isomerase activity  
(Vol. 4)

The sample shows glucose isomerase activity

### PURITY

Glutaraldehyde (Vol. 4)

Passes Limit Test for Glutaraldehyde from Immobilized Glucose Isomerases crosslinked with Glutaraldehyde