

PHOSPHOMANNOSE ISOMERASE (*Escherichia coli*)

08/23

Recombinant**E-PMIEC****EC:** 5.3.1.8**Synonyms:** mannose-6-phosphate isomerase; D-mannose-6-phosphate aldose-ketose-isomerase**CAS:** 9023-88-5

Refer to the product lot number Certificate of Analysis for lot specific properties.

PROPERTIES**1. ELECTROPHORETIC PURITY:**

- Single band on SDS-gel electrophoresis (MW ~ 43,900)
- One major band on isoelectric focusing (pI ~ 5.2)

2. SPECIFICITY:

Catalyses the following reaction:

D-Mannose 6-phosphate = D-fructose 6-phosphate.

3. PHYSICOCHEMICAL PROPERTIES:

Recommended conditions of use are at pH 7.6 and up to 40°C.

4. STORAGE CONDITIONS:

The enzyme is supplied as an ammonium sulphate suspension containing 0.02% (w/v) sodium azide and should be stored at 4°C. For assay, this enzyme should be diluted in Tris.HCl buffer (88 mM), pH 7.6 containing 4.4 mM MgCl₂. and 1 mg/mL BSA. **Swirl to mix the enzyme immediately prior to use.**