

## ISOAMYLASE (Glycogen 6-glucanohydrolase)

08/23

**Non-recombinant****E-ISAMY**

EC: 3.2.1.68

**Synonyms:** isoamylase; glycogen 6- $\alpha$ -D-glucanohydrolase**CAZy Family:** GH13**CAS:** 9067-73-6**Refer to the product lot number Certificate of Analysis for lot specific properties.****PROPERTIES****1. ELECTROPHORETIC PURITY:**

- Single band on SDS-gel electrophoresis (MW = 71,500).
- Single major band on isoelectric focusing (pI = 5.0).

**2. SPECIFICITY:**

Hydrolysis of (1,6)- $\alpha$ -D-glucosidic branch linkages in glycogen, amylopectin and their  $\beta$ -limit dextrins.

**3. PHYSICOCHEMICAL PROPERTIES:**

Recommended conditions of use are at pH 4.0 and up to 40°C.

pH Optima:	4.0-5.0
pH Stability:	3.5-6.0 (16 h, 4°C)
Temperature Optima:	50°C
Temperature Stability:	< 45°C (pH 4.0, 15 min)

**4. RELATIVE RATES OF HYDROLYSIS OF SUBSTRATES:**

Recommended for use in AOAC 2000.11 (polydextrose in food)

**5. PRODUCT DETAILS:**

The enzyme is supplied as an ammonium sulphate suspension containing 0.02% sodium azide and should be stored at 4°C. This enzyme is very unstable to freezing and thawing. **DO NOT FREEZE.** It is recommended that all buffers used for dilution contain BSA (1 mg/mL). **Swirl to mix the enzyme immediately prior to use.**

6. EXPERIMENTAL DATA:

