

PULLULANASE M2 (*Bacillus licheniformis*)

12/23

Non-recombinant

E-PULBL

EC: 3.2.1.41

Synonyms: pullulanase; pullulan 6-alpha-glucanohydrolase

CAZy Family: GH13

CAS: 9075-68-7

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

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Single major band on SDS-gel electrophoresis (MW = 113,000); some minor bands.
- Two bands on isoelectric focusing (pI 4.5 & 4.6).

2. SPECIFICITY:

Hydrolysis of (1,6)- α -D-glucosidic linkages in pullulan, amylopectin and glycogen, and in the α and β -limit dextrins of amylopectin and glycogen.

3. PHYSICOCHEMICAL PROPERTIES:

Recommended conditions of use are at pH 5.0 and up to 40°C.

pH Optima:	4.5-5.5
pH Stability:	3.5-8.0 (40°C, 30 min)
Temperature Optima:	55-60°C (pH 4.5, 5 min)
Temperature Stability:	50°C (pH 4.5, 30 min)

4. STORAGE CONDITIONS:

The enzyme is supplied as an ammonium sulphate suspension in 0.02% sodium azide and should be stored at 4°C.

5. GENERAL COMMENTS:

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 sodium acetate buffer (100mM), pH 5.0 containing 0.5 mg/mL BSA. **Swirl to mix the enzyme immediately prior to use.**