



## ***endo*-1,3- $\beta$ -GLUCANASE from *Trichoderma* sp. (Lot 180503b)**

### **E-LAMSE**

(EC 3.2.1.39) glucan *endo*-1,3- $\beta$ -D-glucosidase, 3- $\beta$ -D-glucan glucanohydrolase  
CAZy Family: GH16  
CAS: 9025-37-0

05/19

### **PROPERTIES**

**1. ELECTROPHORETIC PURITY:**

- Single band on SDS-gel electrophoresis (MW ~ 32,000)
- One major band on isoelectric focusing (pI ~ 5.3)

**2. SPECIFIC ACTIVITY:**

**36 U/mg protein (on CM-curdlan) at pH 4.5 and 40°C**

**One Unit** of *endo*-1,3- $\beta$ -D-glucanase activity is defined as the amount of enzyme required to release one  $\mu$ mole of D-glucose reducing sugar equivalents per minute from CM-Curdlan (5 mg/mL) in sodium acetate buffer (200 mM), pH 4.5 and 40°C

**3. SPECIFICITY:**

Hydrolysis of (1,3)- $\beta$ -D-glucosidic linkages in (1,3)- $\beta$ -D-glucans

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

Substrate	%
CM-Curdlan	100
pNP- $\beta$ -Glucoside	0.0014
Ceralpha Reagent	< 0.00095

Action on pNP-substrates and polysaccharides or oligosaccharides was determined at a final substrate concentration of 2.5 mM and 5 mg/mL, respectively, in sodium acetate buffer (200 mM), pH 4.5 at 40°C.

**5. 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 sodium acetate buffer (100 mM), pH 4.5. **Swirl to mix the enzyme immediately prior to use.**