

CELLULASE (*endo*-1,4- $\beta$ -D-glucanase) (*Aspergillus niger*)

08/23

**Non-recombinant****E-CELAN**

EC: 3.2.1.4

**Synonyms:** cellulase; 4-beta-D-glucan 4-glucanohydrolase**CAZy Family:** GH12**CAS:** 9012-58-4**Refer to the product lot number Certificate of Analysis for lot specific properties.****PROPERTIES****1. ELECTROPHORETIC PURITY:**

- Single band on SDS-gel electrophoresis (MW = 27,000)
- Single major band on isoelectric focusing (pI = 4.55)

**2. SPECIFICITY:***endo*-hydrolysis of (1,4)- $\beta$ -D-glucosidic linkages in cellulose.**3. PHYSICOCHEMICAL PROPERTIES:**

pH Optima:	4.5
pH Stability:	4.0-10.0
Temperature Optima:	60°C
Temperature Stability:	< 50°C

**4. STORAGE CONDITIONS:**

The enzyme is supplied as a crystalline suspension in 3.2 M ammonium sulphate and 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 containing 0.5 mg/mL BSA. **Swirl to mix the enzyme immediately prior to use.**