

CELLOBIOHYDROLASE I (*Trichoderma longibrachiatum*)

12/24

Non-recombinant

E-CBHI

EC: 3.2.1.176

Synonyms: 1,4-beta-D-glucan-cellobiohydrolase I

CAZy Family: GH7

CAS: 37329-65-0

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

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Single band on SDS-gel electrophoresis (MW = 65,000)

2. SPECIFICITY:

Hydrolysis of (1,4)- β -D-glucosidic linkages in cellulose and cellotetraose, releasing cellobiose from the non-reducing ends of the chains. Active on pNP- β -lactoside.

3. PHYSICOCHEMICAL PROPERTIES:

pH Optima: 4.5-5.0

pH Stability: 2.5-6.5

Temperature Optima: 70°C

Temperature Stability: < 65°C

4. STORAGE CONDITIONS:

The enzyme is supplied as an ammonium sulphate suspension containing 0.02% 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. On dilution in buffer or water, the enzyme should be stored in the frozen state between use.

Swirl to mix the enzyme immediately prior to use.

5. REFERENCES:

Claeyssens, M. & Aerts, G. (1992). Characterisation of cellilolytic activities in commercial *Trichoderma reesei* preparations: An approach using small, chromogenic substrates. *Bioresource Technology*, **39**, 143-146.