

CZ0203 UG EN V2302

# Cellulase 5E, Cellvibrio japonicus

# CjCel5E (GH5)

 Catalogue number
 Presentation

 CZ02031
 0.25 mg

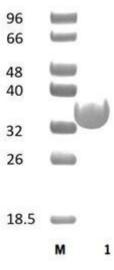
 CZ02032
 3 x 0.25 mg

#### **Description**

Cellulase 5E (C/Cel5E), assigned the E.C. number 3.2.1.4, is a derivative of C-Ellulase 5E (C/Cel5E, purified from C-Ellulase 5E (C-Ellulase family 5 (GH5) enzyme (see more details at C

#### **Electrophoretic Purity**

The molecular integrity and purity of *CjC*el5E (GH5) were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).



**Figure 1**. SDS-PAGE analysis of *CjCel5E* (GH5) was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 34,77 kDa. Lane M contains a Protein Marker for reference.

#### Storage temperature

The protein should be stored at -30°C to -15°C in a constant temperature freezer. The protein will remain stable till the expiry date if stored as specified.

#### **Substrate specificity**

CjCel5E (GH5) hydrolyses soluble forms of cellulose, Avicel and acid swollen cellulose, but not xylan or any other hemicellulose.

#### Temperature and pH optima

The enzyme exhibits optimal activity within a pH range of 4.5-8.0 and at a temperature of 37°C. Maximal enzymatic activity is achieved at pH 6 and a consistent temperature of 37°C.

# **Enzyme activity**

The substrate specificity and kinetic properties of *Cj*Cel5E (GH5) are detailed in the referenced publication provided below. To perform enzyme assays and determine specific activity values, adhere to the methodology outlined in the cited paper(s).

#### Reference

Hall et al. (1995) Biochem J. 309(Pt 3): 749-756.

# **Customer Support**

Our dedicated customer support team is always ready to assist you with any questions or technical issues you may have. Reach us via email at info@nzytech.com.

# **Quality control assay**

Protein purity is determined to be ≥90%, as assessed by SDS-PAGE and subsequent BlueSafe staining (MB15201).

For life science research only. Not for use in diagnostic procedures.