



## Product Information

### Recombinant *Clostridium thermocellum* lichenase 26A & Cellulase 5E1

**Cat. No.:** X23-08-YM027

**Size:** 0.6 mg; 1.2 mg; 1.8 mg; 2.4 mg

**Enzyme Commission Number:** 3.2.1.73; 3.2.1.4

**Synonym:** CtlLic26A-Cel5E;  $\beta$ -(1 $\rightarrow$ 4)-D-Glucan 4-glucanohydrolase; *Endo*-1,4- $\beta$ -D-glucanase

**This product is for research use only and is not intended for diagnostic use.**

#### Product Information

<b>Description</b>	Recombinant <i>Clostridium thermocellum</i> lichenase 26A & Cellulase 5E1 produced by <i>Escherichia coli</i> , is a specific <i>endo</i> -(1-3),(1-4)- $\beta$ -D-glucan 4-glucanohydrolase. It totally solubilizes $\beta$ -glucans from cereal grains by attacking $\beta$ -(1,4) glucosidic linkages to give gluco-oligosaccharides.
<b>Expression System</b>	<i>Escherichia coli</i>
<b>Species</b>	<i>Clostridium thermocellum</i>
<b>Concentration</b>	0.6 mg/mL
<b>Form</b>	Liquid
<b>Purity</b>	$\geq$ 90%, determined by SDS-PAGE.
<b>Activity</b>	Lichenases & Cellulases
<b>Buffer</b>	35 mM NaHepes buffer (pH 7.5), 750 mM NaCl, 200 mM imidazole, 3.5 mM CaCl <sub>2</sub> , and 25% (v/v) glycerol
<b>Applications</b>	Recombinant <i>Clostridium thermocellum</i> lichenase 26A & Cellulase 5E1 can be used in carbohydrate research and biofuel industries. It has the ability to hydrolyze 1,3-1,4- $\beta$ -glucans, 1,4- $\beta$ -glucans.
<b>Storage</b>	Store at -20°C.