LICHENASE (*endo*-1,3:1,4-β-D-GLUCANASE) (*Bacillus subtilis*)

08/23

Non-recombinant

E-LICHN

EC: 3.2.1.73

Synonyms: licheninase; (1→3)-(1→4)-beta-D-glucan 4-glucanohydrolase

CAZy Family: GH16

CAS: 37288-51-0

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

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Single band on SDS-gel electrophoresis (MW ~ 26,750)
- One major band on isoelectric focusing (pI ~ 9.0), two minor bands (pI ~ 8.6 and ~ 8.7)

2. SPECIFICITY:

Hydrolysis of (1,4)-β-D-glucosidic linkages in β-D-glucans containing (1,3)- and (1,4)-bonds.

3. PHYSICOCHEMICAL PROPERTIES:

Recommended conditions of use are at pH 6.0-6.5 and up to 60°C.

pH Optima:	6.0
pH Stability:	3.0-9.0 (> 75% control activity after 24 h at 4°C)
Temperature Optima:	60°C (10 min reaction)
Temperature Stability:	up to 60°C (> 75% control activity after 15 min incubation at temperature)

4. 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 phosphate buffer (100 mM), pH 6.5 containing 1 mg/mL BSA. **Swirl to mix the enzyme immediately prior to use.**

5. EXPERIMENTAL DATA: