



LICHENASE from *Bacillus subtilis* (Lot 30501)

E-LICHN

06/03

PROPERTIES

1. ELECTROPHORETIC PURITY

- Single sharp band on SDS-gel electrophoresis (MW = 26,750).
- Single major band (pI 9.0); minor bands at pI 8.6 & 8.7.

2. SPECIFIC ACTIVITY AND LEVEL OF OTHER ACTIVITIES

ENZYME	SPECIFIC ACTIVITY (U/mg Protein)
Lichenase (barley β -glucan, 5 mg/ml) Km = 0.3 mg/ml.	336.0
β -Glucosidase (p-NP- β -glucoside)	< 0.0001
Cellulase (CMC4M)	< 0.0001
endo-1,3- β -Glucanase (CM-pachyman)	< 0.0001
α -Amylase (starch, 5 mg/ml)	< 0.0005
Amyloglucosidase (starch, 5 mg/ml)	< 0.0005

3. PHYSICOCHEMICAL PROPERTIES

pH Optima 6.5 - 7.0

Temp Optima 60°C (at pH 6.5)

pH stability 2.5 - 9.0 (20°C, 20 hr.)

Temp stability 60°C.

4. STORAGE CONDITIONS

The enzyme is supplied as an ammonium sulphate suspension in 0.02% sodium azide and should be stored at 4°C.