

endo-1,3- β -D-GLUCANASE (barley)

08/23

Recombinant

E-LAMHV

EC: 3.2.1.39

Synonyms: glucan *endo*-1,3-beta-D-glucosidase GII from barley (*Hordeum vulgare*); 3-beta-D-glucan glucanohydrolase

CAZy Family: GH17

CAS: 9025-37-0

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

PROPERTIES

1. ELECTROPHORETIC PURITY:

- Single band on SDS-gel electrophoresis (MW ~ 34,100)
- One major band on isoelectric focusing (pI ~ 8.4)

2. PHYSICOCHEMICAL PROPERTIES:

- | | |
|------------------------|--|
| pH Optima: | 5.0 |
| pH Stability: | 3.0-9.0 (> 75% control activity after 24 h at 4°C) |
| Temperature Optima: | 40-50°C (10 min reaction) |
| Temperature Stability: | up to 50°C (> 90% control activity after 15 min) |

3. STORAGE CONDITIONS:

The enzyme is supplied as a solution containing 50% glycerol plus 0.02% (w/v) sodium azide and should be stored at -20°C. For assay, this enzyme should be diluted in sodium acetate buffer (100 mM), pH 5.0 containing 1 mg/mL BSA.

4. REFERENCES:

Hrmova, M. & Fincher, G. B. (1993). Purification and properties of three (1,3)- β -D-glucanase isoenzymes from young leaves of barley (*Hordeum vulgare*). *Biochem. J.*, 289, 453–461.