

## Lichenase (Endo-1,3:1,4-Beta-D-Glucanase) from *Bacillus subtilis*

### Product Information

<b>Cat#</b>	DIA-534
<b>Source</b>	<i>Bacillus subtilis</i>
<b>Description</b>	High purity lichenase (endo-1,3,1,4- $\beta$ -glucanase) ( <i>Bacillus subtilis</i> ) for use in research, biochemical enzyme assays and in vitro diagnostic analysis.
<b>Form</b>	Suspension
<b>ECNumber</b>	3.2.1.73
<b>Activity</b>	~ 230 U/mg (40 °C, pH 6.5 on barley $\beta$ -glucan)
<b>CAS No.</b>	37288-51-0
<b>Optimum temperature</b>	60 °C
<b>Stability</b>	> 1 year under recommended storage conditions
<b>Unit Definition</b>	One unit of lichenase activity is defined as the amount of enzyme required to release one $\mu$ mole of glucose reducing-sugar equivalents per minute from barley $\beta$ -glucan (10 mg/mL) in sodium phosphate buffer (100 mM), pH 6.5 at 40 °C.
<b>Storage</b>	2–8 °C
<b>Synonyms</b>	Licheninase; (1 $\rightarrow$ 3)-(1 $\rightarrow$ 4)- $\beta$ -D-glucan 4-glucanohydrolase
<b>Buffer</b>	3.2 M ammonium sulphate
<b>Applications</b>	Applications in carbohydrate research and in the food and feeds, brewing and biofuels industries.
<b>Molecular Weight</b>	26750 Da
<b>Concentration</b>	~ 1000 U/mL
<b>Specificity</b>	Hydrolysis of (1,4)- $\beta$ -D-glucosidic linkages in $\beta$ -D-glucans containing (1,3)- and (1,4)-bonds.