

## Xyloglucanase (GH5) from *Paenibacillus* sp.

### Product Information

<b>Cat#</b>	DIA-541
<b>Source</b>	<i>Paenibacillus</i> sp.
<b>Description</b>	High purity recombinant xyloglucanase (GH5) ( <i>Paenibacillus</i> sp.) for use in research, biochemical enzyme assays and in vitro diagnostic analysis.
<b>Form</b>	Suspension
<b>Activity</b>	~ 78 U/mg (40 °C, pH 5.5 on tamarind xyloglucan)
<b>CAS No.</b>	76901-10-5
<b>Optimum temperature</b>	50 °C
<b>Stability</b>	> 1 year under recommended storage conditions
<b>Unit Definition</b>	One unit of xyloglucanase activity is defined as the amount of enzyme required to release one $\mu$ mole of glucose reducing-sugar equivalents per minute from xyloglucan (5 mg/mL) in sodium acetate buffer (100 mM), pH 5.5 at 40 °C.
<b>Storage</b>	2–8 °C
<b>Synonyms</b>	Xyloglucan-specific endo- $\beta$ -1,4-glucanase; [(1 $\rightarrow$ 6)- $\alpha$ -D-xylo]-(1 $\rightarrow$ 4)- $\beta$ -D-glucan glucanohydrolase
<b>Buffer</b>	3.2 M ammonium sulphate
<b>Applications</b>	Applications in carbohydrate and biofuels research.
<b>Molecular Weight</b>	42300 Da
<b>Concentration</b>	~ 1000 U/mL
<b>Specificity</b>	Endo-hydrolysis of 1,4- $\beta$ -D-glucosidic linkages in xyloglucan.