

## Endo-1,4 Beta-Mannanase from *Aspergillus niger*

### Product Information

<b>Cat#</b>	DIA-521
<b>Source</b>	<i>Aspergillus niger</i>
<b>Description</b>	High purity endo-1,4 $\beta$ -mannanase ( <i>Aspergillus niger</i> ) for use in research, biochemical enzyme assays and in vitro diagnostic analysis.
<b>Form</b>	Suspension
<b>ECNumber</b>	3.2.1.78
<b>Activity</b>	~ 50 U/mg (40 °C, pH 4.0 on carob galactomannan)
<b>CAS No.</b>	37288-54-3
<b>Optimum temperature</b>	60 °C
<b>Stability</b>	> 1 year under recommended storage conditions
<b>Unit Definition</b>	One unit of mannanase activity is defined as the amount of enzyme required to release one $\mu$ mole of mannose reducing-sugar equivalents per minute from carob galactomannan (10 mg/mL) in sodium acetate buffer (100 mM), pH 4.0 at 40 °C.
<b>Storage</b>	2–8 °C
<b>Synonyms</b>	Mannan endo-1,4- $\beta$ -mannosidase; 4- $\beta$ -D-mannan mannanohydrolase
<b>Buffer</b>	3.2 M ammonium sulphate
<b>Applications</b>	Applications established in analysis and research within the food and feed, carbohydrate, biofuels and paper production industries.
<b>Molecular Weight</b>	48000 Da
<b>Concentration</b>	~ 600 U/mL
<b>Specificity</b>	Random hydrolysis of (1,4)- $\beta$ -D-mannosidic linkages in mannans, galactomannans and glucomannans.