

## Alpha-Amylase from *Aspergillus oryzae*

### Product Information

<b>Cat#</b>	DIA-495
<b>Source</b>	<i>Aspergillus oryzae</i>
<b>Description</b>	High purity $\alpha$ -amylase ( <i>Aspergillus oryzae</i> ) for use in research, biochemical enzyme assays and in vitro diagnostic analysis.
<b>Form</b>	Suspension
<b>ECNumber</b>	3.2.1.1
<b>Activity</b>	~ 120 U/mg (40 °C, pH 5.4 on Ceralpha reagent)
<b>CAS No.</b>	9000-90-2
<b>Optimum temperature</b>	50 °C
<b>Stability</b>	> 1 year under recommended storage conditions
<b>Unit Definition</b>	One unit of $\alpha$ -amylase is the amount of enzyme required to release one $\mu$ mole of p-nitrophenol from blocked p-nitrophenyl-maltoheptaoside per minute (in the presence of excess $\alpha$ -glucosidase), pH 5.4 at 40 °C.
<b>Storage</b>	4 °C
<b>Synonyms</b>	$\alpha$ -amylase; 4- $\alpha$ -D-glucan glucanohydrolase
<b>Buffer</b>	3.2 M ammonium sulphate
<b>Molecular Weight</b>	54000 Da
<b>Concentration</b>	~ 1000 U/mL
<b>Specificity</b>	Endo-hydrolysis of $\alpha$ -1,4-D-glucosidic linkages in starch.