

## Phosphotransacetylase from *Bacillus subtilis*

### Product Information

<b>Cat#</b>	DIA-549
<b>Source</b>	<i>Bacillus subtilis</i>
<b>Description</b>	High purity recombinant phosphotransacetylase ( <i>Bacillus subtilis</i> ) for use in research, biochemical enzyme assays and in vitro diagnostic analysis.
<b>Form</b>	Suspension
<b>ECNumber</b>	2.3.1.8
<b>Activity</b>	~ 3,500 U/mg (25 °C, pH 7.4 on Coenzyme A)
<b>CAS No.</b>	9029-91-8
<b>Optimum pH</b>	7.4
<b>Optimum temperature</b>	25 °C
<b>Stability</b>	> 1 year under recommended storage conditions
<b>Unit Definition</b>	One unit of phosphotransacetylase activity is defined as the amount of enzyme required to release one $\mu$ mole of acetyl-CoA per minute from Coenzyme A (0.44 mM) in Tris HCl buffer (86 mM) pH 7.4 at 25 °C.
<b>Storage</b>	2–8 °C
<b>Synonyms</b>	Phosphate acetyltransferase; acetyl-CoA:phosphate acetyltransferase
<b>Buffer</b>	3.2 M ammonium sulphate
<b>Applications</b>	Applications for the measurement of acetic acid in the food, fermentation, wine, beverage and dairy industries.
<b>Molecular Weight</b>	36953 Da
<b>Concentration</b>	~ 3000 U/mL
<b>Specificity</b>	Catalyses the reaction: Coenzyme A + acetyl phosphate = acetyl-CoA + phosphate.