

## Native E. coli 1-5-Anhydroglucitol-6-Phosphate Dehydrogenase

Cat. No. NATE-0039

Lot. No. (See product label)

### Introduction

<b>Applications</b>	Useful for enzymatic determination of 1,5-AG
<b>Synonyms</b>	AG6PDHII; EC 1.1.1.140; 1-5-Anhydroglucitol-6-Phosphate Dehydrogenase

### Product Information

<b>Source</b>	Escherichia coli
<b>Appearance</b>	White powder
<b>Form</b>	Freeze dried powder
<b>EC Number</b>	EC 1.1.1.140
<b>CAS No.</b>	37250-69-4
<b>Molecular Weight</b>	78 kDa (TSK gel G 3000 SWXL gel filtration); 40 kDa (SDS-PAGE)
<b>Activity</b>	> 20 U/mg
<b>Contaminants</b>	ATPase < 0.05%; NADPH oxidase < 0.02%
<b>Isoelectric point</b>	pH 4.7
<b>pH Stability</b>	7.0-9.0 (50°C, 30 mins)
<b>Optimum pH</b>	9.0-10.0
<b>Thermal stability</b>	Stable at 42°C and below (pH 9.5, 30 mins)
<b>Optimum temperature</b>	37–50°C
<b>Michaelis Constant</b>	1,5–Anhydroglucitol–6–phosphate 25 mM (pH 10.0); NADP 0.09 mM (pH 10.0)
<b>Unit Definition</b>	One unit is defined as the amount of enzyme which converts 1 µmole of 1,5–AG–6–phosphate to C6H11O8P per minute at 37°C under the conditions specified in the assay procedure.

### Storage and Shipping Information

<b>Storage</b>	Storage at -80°C in the presence of a desiccant is recommended.
<b>Stability</b>	Stable for 1 years under the freezing condition (-80°C).