

Native Corn Phospho (enol)pyruvate Carboxylase

Cat. No. NATE-0543

Lot. No. (See product label)

Introduction

- Description** Phospho (enol)pyruvate carboxylase is a ubiquitous, highly regulated oligomeric, cytosolic enzyme in plants. Phospho (enol)pyruvate Carboxylase from corn was found to be highly susceptible to trypsin digestion.
- Applications** Phospho (enol)pyruvate carboxylase has been used in a study to assess activity of carbon metabolism enzymes in wheat plants treated with kartolin-4 and exposed to water stress. It has also been used in a study to investigate the specific density of leaf as a characteristic of the photosynthetic apparatus.
- Synonyms** phosphopyruvate (phosphate) carboxylase; PEP carboxylase; phosphoenolpyruvic carboxylase; PEPC; PEPCase; phosphate:oxaloacetate carboxy-lyase (phosphorylating); EC 4.1.1.31; 9067-77-0

Product Information

- Source** Corn
- Form** ammonium sulfate suspension; Suspension in 2.4 M (NH₄)₂SO₄ solution containing 10 mM phosphate buffer, pH 7.0, 1 mM biotin, 5 mM dithiothreitol and 1 mM phenylmethylsulfonyl fluoride
- EC Number** EC 4.1.1.31
- CAS No.** 9067-77-0
- Activity** > 1 units/mg protein
- Unit Definition** One unit will form 1.0 μmole of oxaloacetate from phospho (enol)pyruvate and CO₂ per min at pH 8.5 at 25°C.

Storage and Shipping Information

- Storage** 2-8°C