

## Native Baker's yeast (*S. cerevisiae*) Transaldolase

Cat. No. NATE-0714

Lot. No. (See product label)

### Introduction

**Description** Transaldolase is an enzyme (EC 2.2.1.2) of the non-oxidative phase of the pentose phosphate pathway. In humans, transaldolase is encoded by the TALDO1 gene. The following chemical reaction is catalyzed by transaldolase: sedoheptulose 7-phosphate + glyceraldehyde 3-phosphate ↔ erythrose 4-phosphate + fructose 6-phosphate.

**Applications** Useful in systems requiring low sulfate concentrations.

**Synonyms** Transaldolase; EC 2.2.1.2; 9014-46-4; dihydroxyacetone transferase; dihydroxyacetone synthase; formaldehyde transketolase; D-Sedoheptulose-7-phosphate:D-Glyceraldehyde-3-phosphate dihydroxyacetone transferase

### Product Information

**Source** Baker's yeast (*S. cerevisiae*)

**Form** Lyophilized, essentially sulfate-free; contains approx. 5% Citrate buffer salts

**EC Number** EC 2.2.1.2

**CAS No.** 9014-46-4

**Activity** 10-30 units/mg protein (biuret)

**Unit Definition** One unit will produce 1.0 μmole of D-glyceraldehyde 3-phosphate from D-fructose 6-phosphate per min in the presence of D-erythrose 4-phosphate, at pH 7.7 at 25°C in a coupled system with GDH/TPI and β-NADH.

### Storage and Shipping Information

**Storage** -20°C