

## Native E. coli Transketolase

Cat. No. NATE-0716

Lot. No. (See product label)

### Introduction

**Description** Transketolase is highly specific for ketol donor substrates and is stereospecific and enantioselective to hydroxyaldehyde substrates with an (R) configuration. It specifically catalyzes the irreversible transfer of one ketol unit from  $\alpha$ -hydroxypyruvic acid to an aldehyde to produce a D-threo (3S,4R)ketose.

**Applications** Transketolase is widely used in organic synthesis.

**Synonyms** Transketolase; EC 2.2.1.1; 9014-48-6; glycolaldehydetransferase; Glycolaldehyde Transferase

### Product Information

**Source** E. coli

**EC Number** EC 2.2.1.1

**CAS No.** 9014-48-6

**Activity** > 0.1 units/mg

**Unit Definition** 1 U corresponds to the amount of enzyme which will produce 1  $\mu$ mol of glyceraldehyde-3-phosphate from xylulose-5-phosphate per minute at pH 7.7 and 25°C, in the presence of ribose-5-phosphate, thiamine pyrophosphate and Mg<sup>2+</sup>

### Storage and Shipping Information

**Storage** -20°C