

## Native Galactose-adapted yeast Galactose-1-phosphate Uridyltransferase

Cat. No. NATE-0277

Lot. No. (See product label)

### Introduction

**Description** Galactose-1-phosphate uridyltransferase (GALT) facilitates the simultaneous conversion of uridine diphosphoglucose (UDP-glucose) and galactose-1-phosphate (gal-1P) to uridine diphosphogalactose (UDP-galactose) and glucose-1-phosphate. Classic Galactosemia (CG) is an inherited metabolic condition caused by deficiency of GALT activity.

**Synonyms** EC 2.7.7.12; UDP-glucose-hexose-1-phosphate uridylyltransferase; uridyl transferase; hexose-1-phosphate uridylyltransferase; uridyltransferase; hexose 1-phosphate uridyltransferase; UDP-glucose:alpha-D-galactose-1-phosphate uridylyltransferase; 9016-11-9

### Product Information

**Source** Galactose-adapted yeast

**Form** lyophilized powder; Contains buffer salts as Citrate and reduced glutathione

**EC Number** EC 2.7.7.12

**CAS No.** 9026-21-5

**Activity** 20-60 units/mg protein (modified Warburg-Christian)

**Unit Definition** One unit will form 1.0  $\mu$ mole of glucose 1-phosphate from UDP-glucose, galactose 1-phosphate and NADP<sup>+</sup> per min at pH 8.7 at 25°C as detected by a coupled system using phosphoglucomutase.

### Storage and Shipping Information

**Storage** -20°C