

## Native Bovine $\beta$ -1,4-Galactosyl Transferase

Cat. No. NATE-0760

Lot. No. (See product label)

### Introduction

#### Description

$\beta$ -1,4-Galactosyl Transferase catalyzes the transfer of galactose from UDP-galactose to the terminal N-acetylglucosamine residues on elongating oligosaccharide chains. It is also considered to be a biosynthetic enzyme of the Golgi apparatus.  $\beta$ -1,4-Galactosyl Transferase can also be found on the cell surface functioning as a cell-adhesion molecule during various cellular interactions by binding to N-acetylglucosamine containing oligosaccharide substrates or ligands in the extracellular matrix.

#### Synonyms

lactose synthase; UDP- $\alpha$ -D-galactose-glucose galactosyltransferase; N-acetylglucosamine synthase; uridine diphosphogalactose-glucose galactosyltransferase; lactose synthetase; UDP-galactose:D-glucose 4- $\beta$ -D-galactotransferase; UDP-galactose:D-glucose 4- $\beta$ -D-galactosyltransferase; EC 2.4.1.22; 9030-11-9

### Product Information

#### Species

Bovine

#### Source

Bovine milk

#### EC Number

EC 2.4.1.22

#### CAS No.

9030-11-9

#### Molecular Weight

Mr ~44000

#### Activity

> 0.6 units/mg

#### Unit Definition

1 U correspond to the amount of enzyme which transfers 1  $\mu$ mol galactose from UDP-galactose to D-glucose per minute at pH 8.4 and 30°C in the presence of  $\alpha$ -lactalbumin

### Storage and Shipping Information

#### Storage

-20°C