

Native Bovine Galactosyltransferase

Cat. No. NATE-0274

Lot. No. (See product label)

Introduction

Description

Galactosyltransferase catalyzes the transfer of galactosyl molecules in the synthesis of oligosaccharides.

Applications

Galactosyltransferase is the catalytic component of the lactose synthetase system; it synthesizes lactose slowly in the absence of the regulatory protein α -lactalbumin. Galactosyltransferase will also transfer galactose from UDP-galactose to N-acetylglucosamine. This preparation is useful in the determination of α -lactalbumin, UDP-galactose, and N-acetylglucosamine.

Synonyms

EC 2.4.1.22; UDP- α -D-galactose-glucose galactosyltransferase; N-acetyllactosamine synthase; uridine diphosphogalactose-glucose galactosyltransferase; lactose synthetase; UDP-galactose:D-glucose 4- β -D-galactotransferase; UDP-galactose:D-glucose 4- β -D-galactosyltransferase; 9031-68-9

Product Information

Species

Bovine

Source

Bovine milk

Form

Lyophilized powder containing Tris, EDTA, and (NH₄)₂SO₄

EC Number

EC 2.4.1.22

CAS No.

9031-68-9

Contaminants

<10 % protein α -lactalbumin

Unit Definition

One unit will transfer 1.0 μ mole of galactose from UDP-galactose to D-glucose per min at pH 8.4 at 30°C in the presence of 0.2 mg α -lactalbumin per mL of reaction mixture. (without added α -lactalbumin the activity is zero)

Storage and Shipping Information

Storage

-20°C