

## **lactose synthase**

Cat. No. EXWM-2448

Lot. No. (See product label)

### **Introduction**

#### **Description**

The enzyme is a complex of two proteins, A and B. In the absence of the B protein ( $\alpha$ -lactalbumin), the enzyme catalyses the transfer of galactose from UDP- $\alpha$ -D-galactose to N-acetylglucosamine (EC 2.4.1.90 N-acetyllactosamine synthase).

#### **Synonyms**

UDP-galactose-glucose galactosyltransferase; N-acetyllactosamine synthase; uridine diphosphogalactose-glucose galactosyltransferase; lactose synthetase; UDP-galactose:D-glucose 4- $\beta$ -D-galactotransferase; UDP-galactose:D-glucose 4- $\beta$ -D-galactosyltransferase

### **Product Information**

#### **Form**

Liquid or lyophilized powder

#### **EC Number**

EC 2.4.1.22

#### **CAS No.**

9030-11-9

#### **Reaction**

UDP- $\alpha$ -D-galactose + D-glucose = UDP + lactose

#### **Notes**

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

### **Storage and Shipping Information**

#### **Storage**

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.