Creative Enzymes®

# Native Bovine β-1,4-Galactosyl Transferase

*Cat. No. NATE-0760*

*Lot. No.* (See product label)

## Introduction

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| ***Description*** | β-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. β-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-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; EC 2.4.1.22; 9030-11-9 |

## Product Information

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| ***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 μmol galactose from UDP-galactose to D-glucose per minute at pH 8.4 and 30°C in the presence of α-lactalbumin |

## Storage and Shipping Information

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| ***Storage*** | −20°C |