

Galactose dehydrogenase from recombinant E. coli

Cat. No. NATE-1931

Lot. No. (See product label)

Introduction

Description In enzymology, a galactose 1-dehydrogenase (EC 1.1.1.48) is an enzyme that

catalyzes the chemical reaction: D-galactose + NAD+ rightleftharpoons D-

galactono-1,4-lactone + NADH + H+. Thus, the two substrates of this enzyme are D-galactose and NAD+, whereas its 3 products are D-galactono-1,4-lactone, NADH, and H+. This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-OH group of donor with NAD+ or NADP+ as acceptor. This enzyme

participates in galactose metabolism.

Synonyms D-galactose:NAD+ 1-oxidoreductase; D-galactose dehydrogenase; beta-galactose

dehydrogenase; NAD+-dependent D-galactose dehydrogenase; galactose 1-

dehydrogenase; EC 1.1.1.48; Galactose dehydrogenase

Product Information

Source E. coli

Form Ammonium sulphate suspension

EC Number EC 1.1.1.48

CAS No. 9028-54-0

Molecular Weight ca. 33,800

Activity more than 80 U/mg protein

pH Stability 5.0 - 10.0

Optimum pH 10.5

Thermal stability No significant decrease in activity up to 50 °C with Ammonium sulphate and 40 °C

without Ammonium sulphate.

Unit Definition One unit of activity is defined as the amount of GalDH that forms 1 μmol of NADH

per minute at 30 °C.

Storage and Shipping Information

Storage Store at 4 to 10 °C (Do not freeze)

Stability Stable at 4 °C for at least one year

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