

## β-Galactose Dehydrogenase S from Pseudomonas fluorescens, Recombinant

Cat. No. NATE-1710

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

**Applications** β-Galactose Dehydrogenase S has been used in the colorimetric microassay method to determine the level of galactose and galactose-1-phosphate in blood.

**Synonyms** D-galactose:NAD<sup>+</sup> 1-oxidoreductase; D-galactose dehydrogenase; beta-galactose dehydrogenase; NAD<sup>+</sup>-dependent D-galactose dehydrogenase; galactose 1-dehydrogenase; EC 1.1.1.48; Galactose dehydrogenase

### Product Information

**Species** Pseudomonas fluorescens

**Source** E. coli

**Form** Suspension in 3.2 M ammonium sulfate solution, pH approximately 6.

**EC Number** EC 1.1.1.48

**Activity** 80 U/mg protein

**Contaminants** <0.01% ADH, <0.01% β-galactosidase, <0.1% LDH, <0.05% NADH oxidase

**Notes** INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.

### Storage and Shipping Information

**Storage** Store at -20°C.