

## Alanine Dehydrogenase (Crude Enzyme)

Cat. No. NATE-1801

Lot. No. (See product label)

### Introduction

#### Description

This enzyme belongs to the family of oxidoreductases, specifically those acting on the CH-NH<sub>2</sub> group of donors with NAD<sup>+</sup> or NADP<sup>+</sup> as acceptor. This enzyme participates in taurine and hypotaurine metabolism and reductive carboxylate cycle (CO<sub>2</sub> fixation). This product with the indicated enzyme activity was briefly purified from engineered *E. coli*.

#### Applications

synthesis; synthesis; biotechnology; nutrition

#### Synonyms

AlaDH; L-alanine dehydrogenase; NAD-linked alanine dehydrogenase; α-alanine dehydrogenase; NAD-dependent alanine dehydrogenase; alanine oxidoreductase; NADH-dependent alanine dehydrogenase

### Product Information

#### Source

*E. coli*

#### Appearance

Clear to translucent yellow solution

#### EC Number

EC 1.4.1.1

#### CAS No.

9029-06-5

#### Activity

Undetermined

#### Reaction

L-alanine + H<sub>2</sub>O + NAD<sup>+</sup> = pyruvate + NH<sub>3</sub> + NADH + H<sup>+</sup>

#### Notes

Since this product needs to be freshly prepared, it will take about 2 weeks after you confirm the order. Each time of the freeze-thawing may cause partial inactivation. Therefore, it should be dispensed as required and stored at -20 °C or lower. With the preservation of the extension of time, the enzyme activity will decline to a certain extent, so the product should be used as soon as possible. This product may have turbidity or precipitation in the production and preservation process, it can be mixed after melting and will not affect the normal use. This product is limited to scientific research use, shall not be used for clinical diagnosis or treatment, shall not be used for food or medicine, shall not be stored in ordinary residential. For your safety and health, please wear an experimental suit and wear disposable gloves.

### Usage and Packaging

#### Package

100ml

### Storage and Shipping Information

#### Storage

at -20 °C or lower, for at least 1 month.