

## Asparaginase from E. coli, Recombinant

Cat. No. NATE-1932

Lot. No. (See product label)

### Introduction

#### Description

Asparaginase (EC 3.5.1.1, USAN) or Colaspase (BAN) is an enzyme that catalyzes the hydrolysis of asparagine to aspartic acid. Asparaginases are enzymes expressed and produced by microorganisms.

#### Synonyms

EC 3.5.1.1; Asparaginase; Colaspase; L-asparaginase; L-asparagine amidohydrolase

### Product Information

#### Source

E. coli

#### Form

In 2.5 M lithium sulphate.

#### EC Number

EC 3.5.1.1

#### CAS No.

9015-68-3

#### Molecular Weight

~ 37,900

#### Activity

~ 15 U/mg

#### Concentration

~ 350 U/mL

#### Isoelectric point

~ 6.3

#### Optimum pH

8

#### Optimum temperature

37°C

#### Unit Definition

One Unit of asparaginase activity is defined as the amount of enzyme required to produce one  $\mu$ mole of L-aspartate from L-asparagine (7.3 mM) per minute in the presence of NADPH in Tris.HCL buffer (45 mM), pH 8.0.

### Storage and Shipping Information

#### Storage

4°C

#### Stability

> 4 years at 4°C.