

## 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.