

## Ribonuclease R from E. coli

Cat. No. NATE-1636

Lot. No. (See product label)

### Introduction

**Description** RNase R is an 3'→5' exoribonuclease closely related to RNase II, which has been shown to be involved in selective mRNA degradation, particularly of non stop mRNAs in bacteria. RNase R has homologues in many other organisms. When a part of another larger protein has a domain that is very similar to RNase R, this is called an RNase R domain.

**Applications** • Alternative splicing studies • Gene expression studies • Intron cDNA production • Intronic screening of cDNA libraries • Isolation of splicing intermediates and lariats

**Synonyms** RNase R; Ribonuclease

### Product Information

**Source** E. coli

**EC Number** EC 3.1.13.1

**Activity** 20 U/μl

**Concentration** 1 μg/μl

**Optimum temperature** 37°C

**Buffer** RNase R is supplied in a 50% glycerol solution containing 50 mM Tris-HCl (pH 7.5), 100 mM NaCl, 0.1 mM EDTA, 0.1% Triton® X-100 and 1 mM dithiothreitol.

**Unit Definition** One unit converts 1 μg of poly-r(A) into acid-soluble nucleotides in 10 minutes at 37°C in 20 mM Tris-HCl (pH 8.0), 100 mM KCl and 0.1 mM MgCl<sub>2</sub>.

### Storage and Shipping Information

**Storage** Store only at -20°C in a freezer without a defrost cycle.