

RIBONUCLEASE (RNase)

EC Number	3.1.27.5
Alternative Names	Pancreatic ribonuclease; RNase; RNase I; RNase A; Pancreatic RNase; Ribonuclease I; Endoribonuclease I
Assay Principle	The rate of decrease in absorbance at 300nm is a measure of the enzyme activity.
Unit Definition	That amount of enzyme causing the hydrolysis of RNA at a rate such that k (velocity constant) equals unity (Kunitz units) at 25°C and pH 5.0

How can Ribonuclease be used?

Ribonuclease (RNase) is classified as an endonuclease, which specifically cleaves phosphodiester bonds at the 3'-end of pyrimidine nucleosides and at the 5'-ribose of a nucleotide, ribonucleic acid (RNA). Ribonuclease can be used in the following applications:

- + In isolation of DNA for RNA-free DNA, especially plasmid DNA
- + Structural studies of RNA
- + The depolymerisation of viscous biological suspensions, rendering RNA-free solutions



Why choose BBI for your supply?

BBI Solutions (BBI) is the leading manufacturer of Ribonuclease A, supplying the enzyme as a key component for molecular biology reagents. The enzyme has been used for the removal of RNA in DNA purification procedures for over 25 years.

Our raw material selection and production procedures have been optimised to ensure that we achieve the highest quality, stability and batch-to-batch consistency, and provide RNase products with proven performance in DNA extraction kits.

Key Benefits

+ HIGH QUALITY MATERIAL

Well controlled procedures to ensure the highest quality material

+ PROVEN PERFORMANCE

In DNA extraction kits

+ BATCH-TO-BATCH REPRODUCIBILITY

Enabling consistent formulations performance in your assay

+ BULK EXTRACTION & PURIFICATION CAPABILITY

Our optimised large scale manufacturing processes produce high volumes of purified RNase every batch

+ SECURE SUPPLY

We have direct relationships with our raw material suppliers to ensure a secure supply chain

Order your evaluation sample today

RN1	>70 U/mg material, RNase A content approximately 70%
RN1F	>70 U/mg material, RNase A content approximately 70%, bioburden <50 CFU/gram
RN2	>70 U/mg material, RNase A content approximately 70%, essentially protease free
RN3	>80 U/mg material, RNase A content >95%, essentially protease free DNase not detected
181515BBI	>100 U/mg material

FAQ's

HOW IS RNASE PRODUCED?

RNase is extracted from bovine pancreas using multiple precipitation, fractionation, chromatography and filtration steps. Our procedures have been developed and optimised to ensure the highest quality, stability and batch-to batch consistency.

ARE CUSTOMISED PRODUCT SPECIFICATIONS AVAILABLE?

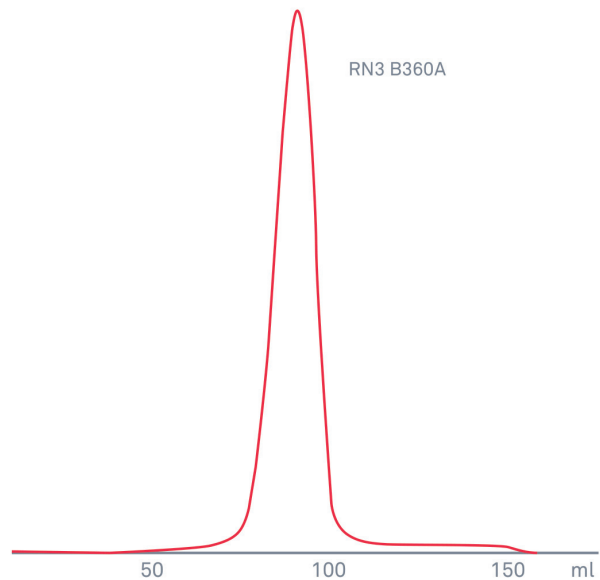
We will profile your requirements against our process capability to meet a specification suitable to your needs.

HOW SHOULD THE MATERIAL BE STORED?

We recommend you store the material desiccated at -15°C.

Product Analysis

The RNase A content of RN3 is >95%:



Related Products

Application Area	Product Name	Code	Activity
Bulk Enzymes	Trypsin	201553BBI	> 2500 U/mg material
Bulk Enzymes	Chymotrypsin	031110BBI	>5µ Katal/mg material
Bulk Enzymes	Deoxyribonuclease	041160BBI	> 2500 U/mg material

Order a sample today sales@bbisolutions.com

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