

Datasheet for MB-101-0100

Deoxyribonuclease I

Overview

Description:	Deoxyribonuclease I (Bovine Pancreas) RNase and Protease Free Molecular Biology Grade - MB-101-0100
Item No.:	MB-101-0100
Size:	100 Units
Origin:	Bovine

Product Details

Background:	Deoxyribonuclease I is an endonuclease which splits phosphodiester linkages yielding polynucleotides with a free 3'-OH and 5'-phosphate. Activated by bivalent metal ions and inhibited by chelators such as EDTA. Chromatographically purified to be free of ribonuclease and protease activity.
Synonyms:	Deoxyribonuclease I reagent, Bovine Pancreas Deoxyribonuclease I
Species of Origin:	Bovine
Reagent Type:	Enzyme
Specific Activity:	2,400 Kunitz/mL

Target Details

Purity/Specificity:	Enzyme Concentration: 2290 units/ml or ~2.2 units/ul (100 units/vial) which approximately equals 1 mg/ml. % Ribonuclease: None detected % Protease: None detected
----------------------------	---

Application Details

Application Note:	One unit will cause an increase in the absorbance at 260 nm of 0.001 per minute per ml at 25° C, pH 5.0 when acting on highly polymerized DNA according to the assay method of Kunitz (J.Gen.Physiol. 33, 349 and 363 (1950)). A solution in 1 mM Calcium Chloride and 50% (v/v) glycerol.
--------------------------	--

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 122 unit

Buffer: See application note.

Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C or colder prior to opening product.

Expiration: Expiration date is six (6) months from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

