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Datasheet for MB-101-0100

# Deoxyribonuclease I

## Overview

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| **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

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| **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

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

## Application Details

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| **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. |

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

## Formulation

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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 122 unit |
| **Buffer:** | See application note. |

## Shipping & Handling

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| **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

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