

Datasheet for MB-116-0015

Micrococcal Nuclease S7**Overview**

Description:	Micrococcal Nuclease (S7) - MB-116-0015
Item No.:	MB-116-0015
Size:	15 ku
Origin:	Staphylococcus aureus

Product Details

Background:	Micrococcal nuclease catalyzes cleavage of both DNA and RNA to yield 3'-nucleotides. It exhibits exo- and endo-5'-phosphodiesterase activities. The enzyme catalyzes preferential endohydrolysis of the RNA and DNA at sites rich in adenylate or uridylate and deoxyadenylate or thymidylate. The enzyme has a molecular weight of 16,807 daltons and is calcium dependent. The pH optimum is 9.2 but varies depending upon the concentration of ionized calcium present.
Species of Origin:	Staphylococcus aureus
Reagent Type:	Enzyme
Specific Activity:	≥6,000 units per mg protein

Target Details

Purity/Specificity:	Purified by chromatography and assayed by SDS-PAGE.
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Application Details

Application Note:	One Unit causes a change in optical density of 1.0 at 260 nm at 37°C, pH 8.0, using DNA as the substrate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	23,345 u/mgP 20,310 u/mg dw

Formulation

Physical State:	Lyophilized
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C or 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.

