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Certificate of Analysis

Product Deoxyribonuclease I
Source Bovine Pancreas
Country of Manufacture USA
All products from animal sources are produced from starting material of USDA-approved origin, collected in United States Department of Agriculture (USDA) or equivalent approved facilities, inspected to be free of disease and suitable for exportation. Certificates of Origin are available upon request.
Storage Store at 2-8°C.
Code DP
Lot Number
Re-Assay Date
Description Partially purified. A lyophilized powder.
Unit Definition One Unit causes an increase in absorbance at 260 nm of 0.001 per minute per ml. at 25°C, pH 5.0, when acting on highly polymerized DNA in the presence of ionized magnesium and calcium.

<u>Parameter</u>	<u>Result</u>	<u>Acceptance Criteria</u>
u/mg dw	3,370	≥2,000 Kunitz units per mg dry weight
% Chymotrypsin	0.0017%	Report assay value.
A280nm @ 1 mg/ml	0.80	Report assay value.
Endotoxin EU/mg dw	9.03	Report Assay Value.

Worthington certifies that all lots of deoxyribonuclease are subjected to a pH of less than 3.0 for greater than five (5) hours during processing. Activated by bivalent metal ions. Maximum activation attained with Mg⁺⁺ plus Ca⁺⁺.

Approved by: Thomas R. Ryan, Quality Control Manager (signature on file)

Date: 5/15/19