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Certificate of Analysis

Product Deoxyribonuclease I, Filtered
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. PROTECT FROM MOISTURE.
Code DCLS
Lot Number
Re-Assay Date
Description Filtered through a 0.22 micron membrane and lyophilized in vials. Material is not tested for pyrogenicity.
Unit Definition One Kunitz Unit causes an increase in absorbance at 260 nm of 0.001 per minute per ml. at 25C, pH 5.0 when acting on highly polymerized DNA in the presence of ionized magnesium and calcium. (1 Kunitz unit = 45.5 Dornase units.)

<u>Parameter</u>	<u>Result</u>	<u>Acceptance Criteria</u>
u/mg dw	5,585	≥2,000 Kunitz units per mg dry weight
A280nm @ 1 mg/ml	0.82	Report assay value.
Colony Count	No cfu's detected	≤1 cfu/ml
u/vial, 11 mg	76,510	Report assay value.

Worthington certifies that all lots of DNase are subjected to a pH of less than 3.0 for greater than five (5) hours during processing.

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

Date: 9/9/16