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Certificate of Analysis

Product Deoxyribonuclease I, RNase & Protease Free, Solution
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 -20°C.
Code DPRFS
Lot Number
Re-Assay Date
Description Molecular Biology Grade. Chromatographically purified to remove RNase and protease. Supplied as a solution at approximately 2 Kunitz units per microliter (approximately 1 mg/ml) containing 50% glycerol and 1mM calcium chloride.
Unit Definition One Unit causes an increase in absorbance at 260nm 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).

<u>Parameter</u>	<u>Result</u>	<u>Acceptance Criteria</u>
u/ml	2,220	≥2,000 Kunitz units per ml
% Protease	None detected	None detected
% RNase	None detected	None detected
u/vial, LS006342	122	≥100 units per vial
u/vial, LS006344	610	≥500 units per vial

Pancreatic DNase is sensitive to denaturation. Mix by gentle inversion. Worthington certifies that all lots of DNase are subjected to a pH of <3.0 for >5hrs during processing. RNases: No change in ethidium bromide electrophoresis band patterns of 1.5µg HeLa cell total RNA following incubation of 6 units DPRFS in 20µl of 50mM Tris-HCl, pH 7.6 for 1hr at 37°C. Proteases: No development of digestion zones when 10µl DPRFS are incubated in a casein agarose plate for 24 hrs at 37°C.

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

Date: 3/2/20