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www.worthington-biochem.com

Certificate of Analysis

Product Ribonuclease A
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 R
Lot Number
Re-Assay Date
Description A chromatographically purified, lyophilized powder.
Unit Definition One Unit hydrolyzes yeast RNA liberating soluble oligonucleotide causing an increase in absorbance at 260nm of 1.0 at 37°C, pH 5.0.
Note: One Kunitz Unit equals 50 Worthington Units.

| <u>Parameter</u> | <u>Result</u> | <u>Acceptance Criteria</u> |
|------------------|---------------|--------------------------------|
| u/mg dw | 6,590 | ≥2,500 units per mg dry weight |
| A280nm @ 1 mg/ml | 0.56 | Report assay value. |

Worthington certifies that all lots of ribonuclease 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: 2/11/20