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Certificate of Analysis

Product Trypsin, TPCK Treated
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 TRTPCK
Lot Number
Re-Assay Date
Description A chromatographically purified, diafiltered, lyophilized powder that has been treated with L-(tosylamido-2-phenyl) ethyl chloromethyl ketone (TPCK) to inhibit contaminating chymotryptic activity [Kostka, V., and Carpenter, F.: *JBC*, 239, 1799 (1964)].
Unit Definition One Unit hydrolyzes one micromole of TAME per minute at 25°C, pH 8.2, in the presence of 0.01M calcium. (One TAME unit = 19.2 USP/NF units = 57.5 BAEE units.)

<u>Parameter</u>	<u>Result</u>	<u>Acceptance Criteria</u>
u/mg P	333	≥180 u/mgP (10,350 BAEE/3,450 USP/NF u/mgP)
u/mg dw	320	Report assay value.
% Chymotrypsin	0.009%	≤0.02%
% Protein	96%	Report assay value.

Worthington Biochemical Corporation, the producer of the above specified product, certifies that all lots of DNase, RNase and Trypsin 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: 8/13/19