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Certificate of Analysis

Product Trypsin, Modified, Sequencing Grade
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. PROTECT FROM MOISTURE.
Code TRSEQZ
Lot Number
Re-Assay Date
Description Trypsin, treated with L-(tosylamido-2-phenyl) ethyl chloromethyl ketone to inhibit contaminating chymotryptic activity, chemically modified to promote stability and further purified to remove autolysis fragments, resulting in a highly stable trypsin product resistant to autolysis while retaining specificity.
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/mgP TAME	250	≥150 units per mg protein TAME
A280/mg dw	1.39	Report Assay Value.
Resist. to Autolysis, 3 hrs	86%	≥80%
Resist. to Autolysis, 24 hrs	75%	≥60%
SDS PAGE	Satisfactory	Satisfactory
u/mgP Caseinase Substrate	5.72	Report assay value.

Reconstitute with 1mM HCl. Keep at 2-8°C for short term (2-4 days) and freeze at -20°C for long term storage. 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: 6/11/20