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## Certificate of Analysis

Product Pepsin A  
Source Porcine Stomach  
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.  
Code PM  
Lot Number  
Re-Assay Date  
Description Two times crystallized from dilute alcohol. A lyophilized powder.  
Unit Definition With a denatured hemoglobin substrate, one Unit releases 0.001 A280 as TCA soluble hydrolysis products per minute at 37°C. One FIP Unit (Eur. Pharm.), expresses as micromoles of tyrosine equivalents liberated per minute at 25°C, can be calculated as follows:  $\text{WBC u/mg dw} \times 0.0071 = \text{FIP u/mg dw}$

<u>Parameter</u>	<u>Result</u>	<u>Acceptance Criteria</u>
u/mg dw	2,800	≥2,500 units per mg dry weight
A280nm @ 1 mg/ml	1.41	Report assay value.
FIP units/mg dw	19.9	Report assay value.
% Protein	96%	Report Assay Value.
u/mg P	2,917	Report Assay Value.

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

Date: 4/23/18