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### Certificate of Analysis

Product Collagenase CLSAFA Animal Free/AF  
Source Clostridium histolyticum  
Country of Manufacture USA  
Storage Store at 2-8°C.  
Code CLSAFA  
Lot Number  
Re-Assay Date  
Description Prepared cultures grown in medium completely devoid of animal based components and designed for bioprocessing applications where introduction of animal derived pathogens must be prevented.  
Unit Definition One unit liberates one micromole of L-leucine equivalents from collagen in 5 hours at 37C, pH 7.5.

<u>Parameter</u>	<u>Result</u>	<u>Acceptance Criteria</u>
u/mg dw	195	≥150 units per mg dry weight
u/mg dw Caseinase	175	≥150 units per mg dry weight
u/mg dw Clostripain	4.42	≤8.00 units per mg dry weight
u/mg dw Tryptic	0.52	≥0.10 units per mg dry weight
Endotoxin EU/mg dw	2.53	Report Assay Value.
A280nm @ 1 mg/ml	3.01	Report assay value.

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

Date: 10/13/20