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### Certificate of Analysis

Product Collagenase, Type 4, Filtered  
Source Clostridium histolyticum  
Country of Manufacture USA  
Storage Store at 2-8°C.  
Code CLSS-4  
Lot Number  
Re-Assay Date  
Description Collagenase, Type 4 (Code: CLS-4), which is filtered through a 0.22 micron membrane and lyophilized in vials.  
Unit Definition One Unit liberates one micromole of L-leucine equivalents from collagen in 5 hours at 37°C, pH 7.5

<u>Parameter</u>	<u>Result</u>	<u>Acceptance Criteria</u>
u/mg dw	191	≥160 units per mg dry weight
u/vial (50 mg)	13,580	≥8,000 units per vial
u/mg dw Caseinase	159	≥100 caseinase units per mg dry weight
u/mg dw Clostripain	0.64	≤3.00 clostripain units per mg dry weight
u/mg dw Tryptic	0.08	≤0.10 tryptic units per mg dry weight
Endotoxin EU/mg dw	3.40	Report Assay Value.
A280nm @ 1 mg/ml	2.28	Report assay value.
Colony Count	No cfu's detected	≤1 cfu per ml
Fill Amount (50 mg)	71	≥50mg

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

Date: 11/6/19