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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             | 237               | ≥160 units per mg dry weight              |
| u/vial (50 mg)      | 15,380            | ≥8,000 units per vial                     |
| u/mg dw Caseinase   | 199               | ≥100 caseinase units per mg dry weight    |
| u/mg dw Clostripain | 0.72              | ≤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  | 4.81              | Report Assay Value.                       |
| A280nm @ 1 mg/ml    | 2.56              | Report assay value.                       |
| Colony Count        | No cfu's detected | ≤1 cfu per ml                             |
| Fill Amount (50 mg) | 65                | ≥50mg                                     |

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

Date: 5/15/20