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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	188	≥160 units per mg dry weight
u/vial (1 gm)	223,830	≥160,000 units per vial
u/mg dw Caseinase	194	≥100 caseinase units per mg dry weight
u/mg dw Clostripain	0.94	≤3.00 clostripain units per mg dry weight
u/mg dw Tryptic	0.06	≤0.10 tryptic units per mg dry weight
Endotoxin EU/mg dw	2.78	Report Assay Value.
A280nm @ 1 mg/ml	2.83	Report assay value.
Colony Count	No cfu's detected	≤1 cfu per ml
Fill Amount (1 gm)	1,191	≥1,000mg

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

Date: 3/29/19