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### Certificate of Analysis

Product Collagenase, Type 4  
Source Clostridium histolyticum  
Country of Manufacture USA  
Storage Store at 2-8°C.  
Code CLS-4  
Lot Number  
Re-Assay Date  
Description Prepared to contain lower tryptic activity levels to limit damage to membrane proteins and receptors but with normal to above normal collagenase activity. Suggested for pancreatic islet primary isolation. A dialyzed, lyophilized powder.  
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	215	≥160 units per mg dry weight
u/mg dw Caseinase	260	≥100 caseinase units per mg dry weight
u/mg dw Clostripain	1.13	≤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	1.04	Report Assay Value.
A280nm @ 1 mg/ml	2.87	Report assay value.

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

Date: 4/17/20