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## CERTIFICATE OF ANALYSIS

CIzyme AS, Catalog # 005-1090  
For Research Use Only

**Product:** Aseptically dispensed mixture of purified Class 1 and Class 2 Collagenase from *C. histolyticum* and purified Neutral Protease from *B. polymyxa*

Lot # 242160218	SPECIFICATION	RESULT
Appearance	White lyophilized cake	White lyophilized cake
Total Wunsch Activity <sup>1</sup>	30 . 40 Units/Vial	38.9 Units/Vial
Total Neutral Protease Activity <sup>2</sup>	220,000 . 350,000 Units/Vial	291,064 Units/Vial
Endotoxin EU/mg protein <sup>3</sup>	< 25.0 EU/OD 280nm	5.64 EU/OD 280 nm
Total Collagen Degrading Activity <sup>4</sup>	Report Only	338,917 Units/Vial

**STORAGE: 2-8°C**

**DATE OF MANUFACTURE: 18 February 2016**  
**EXPIRY DATE: February 2018**

**Signature:**

Andrew Breite, Director of Quality Assurance

6 April 2016

<sup>1</sup> McCarthy RC, et. al. Development and Characterization of a Collagen Degradation Assay to Assess Purified Collagenase Used in Islet Isolation. *Transplantation Proceedings* 40 (2008); 339-342

<sup>2</sup> Breite AG, et. al. Tissue Dissociation Enzyme Neutral Protease Assessment. *Transplantation Proceedings* 42 (2010);2052-54

<sup>3</sup> Charles River Endosafe® PTS Endotoxin Assay

<sup>4</sup> McCarthy RC, et. al. Development and Characterization of a Collagen Degradation Assay to Assess Purified Collagenase Used in Islet Isolation. *Transplantation Proceedings* 40 (2008); 339-342