



Pure science, defined.

CERTIFICATE OF ANALYSIS

CIzyme RI, Catalog # 005-1030
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 # 245160407	SPECIFICATION	RESULT
Appearance	White lyophilized cake	White lyophilized cake
Total Collagen Degrading Activity ¹	300,000 . 450,000 Units/Vial	391,684 Units
Total Neutral Protease Activity ²	60,000 . 100,000 Units/Vial	79,382 Units
Endotoxin EU/mg protein ³	< 25.0 EU/OD 280nm	2.65 EU/OD 280 nm

STORAGE: < -20°C

DATE OF MANUFACTURE: 7 April 2016
EXPIRY DATE: April 2018

Signature:

Andrew Breite, Director of Quality Assurance

13 April 2016

¹ 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

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

³ Charles River Endosafe® PTS Endotoxin Assay