



## CERTIFICATE OF ANALYSIS

Collagenase MA, Catalog # 001-2030  
GMP Grade – For *ex vivo* Use Only

**Product:** Aseptically dispensed mixture of purified Class 1 (60%) and Class 2 (40%) Collagenase from *C. histolyticum*

Lot # 122191031	SPECIFICATION	RESULT
Appearance	White lyophilized cake	White lyophilized cake
Specific Collagen Degrading Activity <sup>1</sup>	15,000 – 30,000 U/mg	24,312 Units/mg
Total Collagen Degrading Activity	2.25 – 2.75 M Units/bottle	2,413,938 Units/bottle
Total Protein <sup>2</sup>	Report Only	99.3 mg/bottle
Endotoxin EU/mg protein <sup>3</sup>	< 10.0 EU/mg	3.4 EU/mg

**STORAGE:** < -20°C

**DATE OF MANUFACTURE:** 31 Oct 2019

**EXPIRY DATE:** Oct 2021

**Signature:**

Andrew Breite, Director of Quality Assurance

6 Nov 2019

<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> Based on absorbance at 280 nm using an extinction coefficient of  $\epsilon=1.41$

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

**VitaCyte, LLC**

1341 Sadlier Circle West Drive

Indianapolis, IN 46239

www.vitacyte.com

**Phone:** 317.917.3457

**Fax:** 317.917.3459