



## CERTIFICATE OF ANALYSIS

Collagenase MA, Catalog # 001-2020  
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 # 224171207                                   | SPECIFICATION              | RESULT                 |
|---|----------------------------|------------------------|
| Appearance  | White lyophilized cake     | White lyophilized cake |
| Specific Wünsch Activity <sup>1</sup>             | > 2.80 Units/mg            | 4.64 Units/mg          |
| Total Wünsch Activity                             | 1,000 – 1,400 Units/bottle | 1,112 Units/bottle     |
| Specific Collagen Degrading Activity <sup>2</sup> | 15,000 – 30,000 U/mg       | 23,824 Units/mg        |
| Endotoxin EU/mg protein <sup>3</sup>              | < 10.0 EU/mg               | 3.97 EU/mg             |
| Total Protein <sup>4</sup>                        | Report Only                | 239.7 mg/bottle        |

**STORAGE:** < -20°C

**DATE OF MANUFACTURE:** 7 Dec 2017

**EXPIRY DATE:** December 2019

**Signature:**

Andrew Breite, Director of Quality Assurance

15 Dec 2017

<sup>1</sup> Wünsch E, Heidrich H-G. Zur quantitativen bestimmung der kollagenase. *Hoppe-Seyler's Zeitschrift Physiologische Chemie* 333 (1963);149-151

<sup>2</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>3</sup> Charles River Endosafe® PTS Endotoxin Assay

<sup>4</sup> Based on absorbance at 280 nm using an extinction coefficient of  $\epsilon=1.41$

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