

CERTIFICATE OF ANALYSIS

Collagenase MA, Catalog # 001-2030 GMP Grade

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

Lot # 224171003	SPECIFICATION	RESULT
Appearance	White lyophilized cake	White lyophilized cake
Specific Collagen Degrading Activity ¹	15,000 – 30,000 U/mg	22,204 Units/mg
Total Collagen Degrading Activity	2.25 – 2.75 M Units/bottle	2,272,357 Units/bottle
Total Protein ²	Report Only	102.3 mg/bottle
Endotoxin EU/mg protein ³	< 10.0 EU/mg	3.85 EU/mg

STORAGE: < -20°C

DATE OF MANUFACTURE: 3 Oct 2017 EXPIRY DATE: October 2019

Signature:

Andrew Breite, Director of Quality Assurance

11 Oct 2017

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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 Based on absorbance at 280 nm using an extinction coefficient of ϵ =1.41

³ Charles River Endosafe[®] PTS Endotoxin Assay