



PRODUCT SPECIFICATIONS
Collagenase MA, Catalog #001-2020
GMP Grade – For *ex vivo* Use Only
Version 19 April 2021

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

Lot #	SPECIFICATION	RESULT
Appearance	White lyophilized cake	Lot Specific
Specific Wünsch Activity ¹	> 2.80 Units/mg	Lot Specific
Total Wünsch Activity	1,000 – 1,400 Units/bottle	Lot Specific
Endotoxin ²	< 10.0 EU/mg	Lot Specific
Specific Collagen Degrading Activity ³	15,000 – 30,000 Units/mg	Lot Specific
Total Protein ⁴	Report Only	Lot Specific

STORAGE: -20 ± 5°C

DATE OF MANUFACTURE:

EXPIRY DATE: 4 years from date of manufacture

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

² Charles River Endosafe® PTS Endotoxin Assay

³ 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

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