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CERTIFICATE OF ANALYSIS

Collagenase MA, Catalog # 001-2020
For Research Use Only

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

Lot # 224160421	SPECIFICATION	RESULT
Appearance	White lyophilized cake	White lyophilized cake
Specific Wunsch Activity ¹	> 2.80 Units/mg	4.54 Units/mg
Total Wunsch Activity	1000 . 1400 Units/bottle	1002.8 Units/bottle
Endotoxin EU/mg protein ²	< 10.0 EU/mg	3.09 EU/mg
Specific Collagen Degrading Activity ³	15,000 . 30,000 Units/mg	27,826 Units/mg
Total Protein ⁴	Report Only	220.9 mg/bottle

STORAGE: < -20°C

DATE OF MANUFACTURE: 21 April 2016

EXPIRY DATE: April 2018

Signature:

Andrew Breite, Director of Quality Assurance

31 May 2016

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 $0.1\% = 1.41$

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