

CERTIFICATE OF ANALYSIS

Collagenase HA, Catalog # 001-1050 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 # 241170921	SPECIFICATION	RESULT
Appearance	White lyophilized cake	White lyophilized cake
Specific Wunsch Activity ¹	> 2.80 Units/mg	4.51 Units/mg
Total Wunsch Activity	175 – 225 Units/bottle	193.3 Units/bottle
Endotoxin EU/mg protein ²	< 10.0 EU/mg	3.96 EU/mg
Specific Collagen Degrading Activity ³	> 30,000 Units/mg	51,820 Units/mg
Total Collagen Degrading Activity	Report Only	2,221,420 Units/bottle
Total Protein ⁴	Report Only	42.9 mg/bottle

STORAGE: < -20°C DATE OF MANUFACTURE: 21 Sept 2017

EXPIRY DATE: September 2019

Signature:

Andrew Breite, Director of Quality Assurance

4 October 2017

Fax: 317.917.3459

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

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

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