



Pure science, defined.

CERTIFICATE OF ANALYSIS

Recombinant Collagenase HA, Catalog # 001-4010
For Research Use Only

Product: Aseptically dispensed mixture of purified Class 1 Collagenase and Class 2 Collagenase expressed in *E. coli*

Lot # 261160623	SPECIFICATION	RESULT
Appearance	White lyophilized cake	White lyophilized cake
Specific Wunsch Activity ¹	Not yet established	4.84 Units/mg
Total Wunsch Activity	Not yet established	1,760.8 Units/bottle
Endotoxin EU/mg protein ²	Not yet established	6.65 EU/mg
Total Collagen Degrading Activity ³	Report Only	20,767,159 Units/bottle
Total Protein ⁴	Report Only	363.8 mg/bottle

STORAGE: < -20°C

DATE OF MANUFACTURE: 23 June 2016
EXPIRY DATE: June 2018

Signature:

Andrew Breite, Director of Quality Assurance

11 Aug 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 $\epsilon = 1.41$

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