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## CERTIFICATE OF ANALYSIS

Collagenase HA, Catalog # 001-1000  
For Research Use Only

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

Lot # 241160317	SPECIFICATION	RESULT
Appearance	White lyophilized cake	White lyophilized cake
Specific Wunsch Activity <sup>1</sup>	> 2.80 Units/mg	4.55 Units/mg
Total Wunsch Activity	> 1900 Units/bottle	1957.6 Units/bottle
Endotoxin EU/mg protein <sup>2</sup>	< 10.0 EU/mg	5.21 EU/mg
Total Collagen Degrading Activity <sup>3</sup>	Report Only	23,827,245 Units/bottle
Total Protein <sup>4</sup>	Report Only	430.25 mg/bottle
Specific Trypsin Like Activity (BAEE Unactivated) <sup>5</sup>	Report Only	0.008 U/mg
Clostripain (BAEE Activated) <sup>5</sup>	Report Only	0.133 U/mg

**STORAGE:** < -20°C

**DATE OF MANUFACTURE:** 17 March 2016

**EXPIRY DATE:** March 2018

**Signature:**

Andrew Breite, Director of Quality Assurance

28 March 2016

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

<sup>2</sup> Charles River Endosafe® PTS Endotoxin Assay

<sup>3</sup> 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

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

<sup>5</sup> Mitchell WM, Harrington WF. Clostripain. *Methods In Enzymology* (1970) 19;635-642

**VitaCyte, LLC**

1341 Sadlier Circle West Drive

Indianapolis, IN 46239

www.vitacyte.com

**Phone:** 317.917.3457

**Fax:** 317.917.3459