

## **CERTIFICATE OF ANALYSIS**

Material	Collagenase HA GMP Grade (For ex vivo Use Only)				
Description	Aseptically dispensed mixture of purified Class 1 (60%) and Class 2 (40%) Collagenase from C. histolyticum				
Lot Number	111230622		Pack Size		2,000 Wünsch Units
Catalog Number	001-1000		Storage		-20±5°C
Date of Manufacture	22 Jun 2023	Expiry D		ate	Jun 2027
TEST		ACCEPTANCE CRITERIA		RESULT	
Appearance		White lyophilized cake		Conforms	
Specific Wunsch Activity <sup>1</sup>		> 2.80 Units/mg		4.46 Units/mg	
Total Wunsch Activity		> 1900 Units/bottle		2,075 Units/bottle	
Endotoxin EU/mg protein <sup>2</sup> USP <85>		< 10.0 EU/mg		1.0 EU/mg	
Total Collagen Degrading Activity <sup>3</sup>		Report Only		24,509,313 Units/bottle	
Total Protein <sup>4</sup>		Report Only		465.5 mg/bottle	
Trypsin Like Activity (BAEE Unactivated) <sup>5</sup>		Report Only		0.010 U/mg	
Clostripain (BAEE Activated) <sup>5</sup>		Report Only		0.101 U/mg	

Signature:

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25 Jul 2023

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Based on the method Wünsch E, Heidrich H-G. Zur quantitativen bestimmung der kollagenase. *Hoppe-Seyler's Zeitschrift Physiologische Chemie* 333 (1963);149-151 in USP <89.2>

Test performed on the Charles River nexgenEndosafe® PTS Endotoxin Assay system

Based on the method 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  $\epsilon^{0.1\%}$  =1.41

Mitchell WM, Harrington WF. Clostripain. Methods in Enzymology (1970) 19;635-642