

CERTIFICATE OF ANALYSIS

Material	Animal Origin Free Recombinant Collagenase HI GMP Grade (For <i>ex vivo</i> Use Only)				
Description	Aseptically dispensed mixture of purified rColG (Class 1 Collagenase) and rColH (Class 2 Collagenase) expressed in <i>E. coli</i>				
Lot Number	131230309		Pack Size		1,600 Wünsch Units
Catalog Number	001-4010		Storage		-20±5°C
Date of Manufacture	9 Mar 2023		Expiry Date		Mar 2025
TEST		ACCEPTANCE CRITERIA		RESULTS	
Appearance		White lyophilized cake		Conforms	
Identity ¹		rC1 ± 1 min standard RT rC2 ± 1 min standard RT		+0.03 min +0.03 min	
Purity ²		> 90% AUC rC1 + rC2		98.0%	
Total Wünsch Activity ³		> 1,400 Units/bottle		1,659 Units/bottle	
Total Collagen Degrading Activity ⁴		Report Only		20,963,947 Units/bottle	
Endotoxin EU/mg protein USP <85>5		< 25.0 EU/mg		1.53 EU/mg	
Total Protein ⁶		Report Only		411.3 mg/bottle	

Signature:

Andrew Breite, Director of Quality Assurance

27 Mar 2023

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¹ Based on the Purity procedure described in USP <89.1> and <89.2> for peak retention time (RT)

² Integrated Area Under Curve for rC1 and rC2 based on the Purity procedure described in USP <89.1> and <89.2>

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>

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

⁵ Charles River Endosafe® nexgen-PTS™ Endotoxin Assay

Based on absorbance at 280 nm with an extinction coefficient of $\epsilon^{0.1\%}$ = 1.41