

CERTIFICATE OF ANALYSIS

Nutragen®

Bovine, Type I Collagen Solution, 6 mg/mL

Catalog No. 5010 Lot No. 7894 Exp Date: August 2021

<u>Parameter</u>	<u>Specification</u>	<u>Result</u>
Collagen Concentration (mg/mL)	5.8-6.8	5.9
Sterility (USP modified)	No Growth	Pass
Endotoxin LAL (EU/ml)	≤ 1.0	Pass
Gel Formation Tube Test (minutes)	≤ 40	Pass
Kinetic Gel Test (minutes)	≤ 40	Pass
Purity – SDS Page Silver Stain	≥ 99%	Pass
pH	1.9-2.1	2.0
Osmolality (mOsm/Kg H ₂ O)	≤ 35	27
Fibrillogenesis (Absorbance Units)	> 0.5	Pass
Young's Modulus E' (Pa)	Characteristic	Pass
Electrophoretic Pattern	Characteristic	Pass

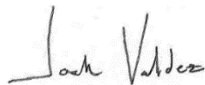


SDS-Page Coomassie Blue:

Lane 1: Standard

Lane 2: Nutragen

≥85% collagen contained within alpha, beta, and gamma bands, <15% collagen contained within bands traveling faster than alpha



Authorized Signature

June 17, 2019

Date