

**Specifications & Technical Analysis**

**Product Name:** TendoGuard™  
**Description:** Collagen Type I, II, V, & X Powder  
**Raw Material:** Avian Sternum Cartilage, Eggshell Membrane, and Collagen Type I, II, V, X Powder  
**Grade:** Food for Human Consumption

Item	Specification	Method
Particle Size	100% through 80 mesh	USP
Mucopolysaccharide %	min 15%	EPVII
Chondroitin Sulfate %	min 10%	HPLC Shuster
Hyaluronic Acid (Ha) %	min 5%	HPLC
Protein % (Collagen Type I, II, V, X)	min 45%	Amino Acid Profile
Loss on Drying %	<10%	USP
<b>Heavy Metal</b>		
Lead (ppm)	< 0.5	ICP/MS
Arsenic (ppm)	≤5	ICP/MS
Mercury (ppm)	≤2	ICP/MS
Calcium (gm/100gms)	≤34%	ICP/MS
Magnesium (gm/100gms)	≤ 0.25	ICP/MS
Potassium (gm/100gms)	≤0.09 g	ICP/MS
Sulfur (gm/100gms)	≤4.0	AOAC 2011.14

**TYPICAL ANTI-BACTERIAL AND ANTI-TYPICAL**

Item	Specification
Sialic acid	min 1%
Ovotransferrin	min 6%
Lysozyme	min 2%

**MICROBIOLOGY**

Item	Specification	Method
Standard Plate Count	< 5,000 cfu/g	UPS 2022
Mold & Yeast	< 1,000 cfu/g	UPS 2022
E. Coli	Negative	UPS 2022
Salmonella	Negative	UPS 2022
Color	Off white / tan fine powder	Visual
Odor	Characteristic	Olfactory

**Packaging:** 25kg drum

**Storage:** Store in a cool dry place away from heat and direct sunlight. MATERIAL IS HYGROSCOPIC (SENSITIVE TO MOISTURE) AND SENSITIVE TO UV LIGHT. Recommended storage temperature 40-80°F.

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