

Datasheet: 2150-0515

Description:	NATIVE BOVINE COLLAGEN I
Name:	COLLAGEN I
Format:	Purified
Product Type:	Purified Protein
Quantity:	10 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Bovine
Product Form	Purified protein from calf tendon - lyophilised
Reconstitution	Use 0.5M acetic acid, pH 3.0. Dispersed collagen have to be thoroughly homogenized in a Potter after addition of the solute and left overnight in the coldroom to dissolve. Dissolved collagen retains immunologic properties of native collagen type I. Thermal denaturation (5 minutes at 100°C) converts dissolved collagen to gelatin.
Preparation	Bovine collagen type I was isolated from calf tendons. Isolation steps included extraction into dilute acetic acid after pepsin treatment, followed by multiple steps of differential salt precipitation and ion-exchange chromatography.
Buffer Solution	Essentially salt free
Preservative Stabilisers	None present.
External Database Links	<p>UniProt:</p> <p>P02465 Related reagents</p> <p>P02453 Related reagents</p> <p>Entrez Gene:</p> <p>282188 COL1A2 Related reagents</p> <p>282187 COL1A1 Related reagents</p>

Product Information Collagen type I 90%
Collagen type III 10%
Non-collagenous proteins <0.5%

Molecular Weight ~300 kDa.

Storage Prior to reconstitution store at +4°C.
After reconstitution store at -20°C.
Storage in frost-free freezers is not recommended. This product should be stored undiluted.
Avoid repeated freezing and thawing as this may denature the antibody.
Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet Documentation #10268 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10268.pdf>

Regulatory For research purposes only

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