

## Datasheet: 2150-0555

<b>Description:</b>	NATIVE BOVINE COLLAGEN III
<b>Name:</b>	COLLAGEN III
<b>Format:</b>	Purified
<b>Product Type:</b>	Purified Protein
<b>Quantity:</b>	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](http://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 the appropriate negative/positive controls.

<b>Target Species</b>	Bovine
<b>Product Form</b>	Purified Protein - lyophilised
<b>Reconstitution</b>	Reconstitute with 2.0ml of 0.1M acetic acid, pH 3.0. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
<b>Preparation</b>	Isolation steps included extraction into dilute acetic acid after pepsin treatment, followed by differential salt precipitation and purification by ion-exchange chromatography.
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	Total protein concentration 5.0mg/ml after reconstitution.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P04258</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">510833</a> COL3A1   <a href="#">Related reagents</a></p>

**Product Information** 2150-0555 is purified collagen type III from bovine skin. Collagen type III occurs in most soft connective tissues. It is composed of trimers of identical alpha 1(III) chains. The chains are linked to each other by interchain disulfide bonds. Trimers are also cross-linked via

hydroxylysines.

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<b>Molecular Weight</b>	300 kDa
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<b>Purity</b>	Non-collagenous proteins are less than 0.5%. Typical contaminants are cross-linked collagen type II dimers and trimers (approximately 10%). Other collagen types constitute less than 5% by immunoassay and analytical chromatography.
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<b>References</b>	1. Hitsumoto, Y. <i>et al.</i> (2013) Adhesive properties of <i>Clostridium perfringens</i> to extracellular matrix proteins collagens and fibronectin. <a href="#">Anaerobe. pii: S1075-9964(13)00187-X.</a>
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<b>Storage</b>	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.
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<b>Shelf Life</b>	18 months from date of despatch.
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<b>Health And Safety Information</b>	Material Safety Datasheet Documentation #10277 available at: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10277.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10277.pdf</a>
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<b>Regulatory</b>	For research purposes only
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**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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