

**Type I Rat Tendon Collagen**

Catalog Number	TY005
Product Name	Type I Rat Tendon Collagen
Storage	2-8°C
Product Format	Liquid
Volume	20ml

**GENERAL INFORMATION**

Collagen naturally plays an important role within the body, but it is being used increasingly within certain areas of medicine as well. The breakdown of the body natural collagen can lead to a number of health problems, but the protein can also be used in other contexts to help with the repair of the body. Collagen comprises a family of genetically distinct molecules, all of which have a unique triple helix configuration of three polypeptide subunits known as alpha-chains. Each chain contains around 1000 amino acids, and usually features an amino acid sequence consisting of glycine, proline and hydroxyproline.

**Our product unique characteristics**

Shelf Life	2 years
Purity	>95 % (SDS PAGE)
pH	3.0
Concentration	8mg /ml by Sircol Assay
Source	Rat Tendon
Buffer	0.2M Acetic Acid
Gel Information	Gel in a few minutes after neutralizing the product
	Great for coating plates, and T-flasks
	Work very well when used in 3D tissue models

**Caution:**

The handling of any organism derived products has potential to be biologically hazardous. Proper precautions must be taken to avoid exposure. Always wear proper protective equipment (Gloves, safety glasses, etc.) when handling these materials. We recommend following the universal procedures for handling products of any organism origin as the minimum precaution against contamination. All products offered by Alphabioregen are for laboratory research purposes only. Any other use and results of that use are the sole responsibility of the user and are not in any way the responsibility of Alphabioregen.

**Recommended Coating and Washing Technique**

- 1-Add sufficient collagen solution to coat dishes, plates or inserts 1-2 ml of solution is sufficient to cover a 35 mm dish.
- 2-Incubate at room temperature in a biological safety cabinet partially covered for 1 hour.
- 3-Carefully aspirate remaining solution. Rinse with proper volume of serum - free media to remove buffer solution.
- 4-Coated plates are best used immediately but can be air-dried and stored.
- 5-Coated plates that have not been cultured can be dried and stored at 2 -8 °C and are useful up to 1 week under sterile conditions

Well	Area (cm <sup>2</sup> )	Coating Volume (ml)	Wash Volume(ml)
6	4.67	0.6	1
12	1.12	0.25	0.4
24	0.33	0.05	0.1
75 mm insert	44	5	8
96	0.143	0.025	0.05