

Attachin™



High Quality Adhesion and 3D Gel Media

Cat. No.	Content	Amount
Q4HCL050	Attachin™ Human Collagen, Type IV, Lyophilized	5 mg
Purity: >85% (SDS-PAGE gel)		
Shipping	Blue ice (frozen gel packs)	
Storage	Store at -20°C. (See stability information above)	

RELATED PRODUCTS	Catalog #
Attachin™ InstaGel Bovine Collagen, Type I, 5mg/ml, 35 ml	Q1BCIG35
Attachin™ Bovine Collagen, Type I, 3 mg/ml, 100 ml	Q1BC1000
Attachin™ Bovine Collagen, Type 1, 6 mg/ml, 50 ml	Q1BC0500
Attachin™ Bovine Collagen, Type I, 10 mg/ml, 20 ml	Q1BC0200
Attachin™ Human Collagen, Type III, 1 mg/ml, 10 ml	Q3HC0100
Attachin™ Bovine Collagen, Type V, 0.2 mg/ml, 2.5 ml	Q5BC0025
Detachin™ Cell Detachment Solution, 100 ml	T100100
Hank's Buffered Saline Solution, 100 ml	PR062100
Trypsin/EDTA Solution, 100 ml	PR070100
Trypsin Neutralization Solution, 100 ml	PR080100
Poly-D-Lysine with Laminin Coating Solution, 2.5 ml	PR12725
GenePORTER® 3000 Transfection Reagent, 0.75 ml	T203007
GeneSilencer® SiRNA Transfection Reagent, 0.75 ml	T500750

INTRODUCTION. Type IV collagen is the primary collagen found in the extracellular basement membranes separating a variety of epithelial and endothelial cells. It is a major component of the dermal-epidermal junction where it is mostly found in the lamina densa. It is a heterotrimeric molecule containing two α 1-like and one α 2-like chains.

The Attachin™ Type IV Collagen is isolated from human placenta and is purified using a rigorous process. It is typically used as a thin coating on tissue culture surfaces to enhance adhesion and proliferation, and to perform collagenase assays and positive control experiments.

MATERIALS AND METHODS

1. Surface Coating Protocol

- 1.1 Resuspend the vial of collagen using 5 ml of sterile and cold 0.25% acetic acid. Mix by pipetting up and down several times. Incubate on ice for 1 hour minimum with occasional swirling.

NOTE: The suspended collagen solution will have a cloudy appearance. If this is undesirable, centrifuge the suspension at 3,000 rpm for 2 minutes.

- 1.2 Dilute the resuspended collagen to a final concentration of 10 to 100 μ g/cm².

NOTE: The type of cells and experiments will dictate the optimal coating concentration; it is recommended to perform initial serial dilutions to find the best conditions for your cells.

- 1.3 Add enough volume of the diluted collagen to coat the entire cell vessel surface.

- 1.4 Cover cell culture vessel and incubate at room temperature or 37°C for 1-2 hours.

- 1.5 Rinse cell culture vessel with sterile buffer (such a PBS) while being careful not to scratch the surface while aspirating buffer.

- 1.6 Coated cell culture vessel can be used immediately or stored at 4°C for later use.

LIMITED LICENSE: The purchase price paid for the Attachin™ Media (hereto "Attachin") grants end users a non-transferable, non-exclusive license to use the reagent solution for **internal research use only** as described in this manual; in particular, research use only excludes and without limitation, resale, repackaging, or use for the making or selling of any commercial product or service without the written approval of Genlantis -- separate licenses are available for resale or other commercial applications. Attachin is not to be used for human consumption, diagnostic applications, or included/used in any drug intended for human use. Care and attention should be exercised in handling Attachin by following appropriate research laboratory practices and kit instructions, including the proper use of protective lab wear during use. MSDS information may be obtained by request to Genlantis. Purchasers may refuse this license by returning the enclosed materials unused. By keeping or using Attachin, you agree to be bound by the terms of this license as governed by the laws of the State of California.