

# NEUROMICS



## AlphaBioCoat Solution

**Catalog #:** AC001

**Storage:** 2°C-8°C for up to 2 months

-20°C long term storage

**Size:** 20 ml

**Source:** ECM

**Purity:** >98% by SDS PAGE

**Product Format:** Liquid

### General Information

Collagen is a fibrous protein found in the extracellular matrix and connective tissue. The most common form of collagen is type I and is most prevalent in bone, tendon and skin. It consists of 3 intertwined coiled subunits: 2 x  $\alpha 1$  (I) chains and 1 x  $\alpha 2$  (I) chain. Each chain contains 1050 amino acids wound tightly around one another in a characteristic right-handed triple helix. The triple-helical structure of collagen arises from unique abundance of the amino acids in collagen appear in a characteristic repeating motif Gly-X-Y, where X is usually proline and Y is usually hydroxyproline.

AlphaBioCoat Solution (AC001) is a biocompatible complex of extracellular matrix binding solution that is supplemented with growth factors. It helps accelerate cell attachment and cell growth.

AC001 is the premium version of our Smooth Coat Solution (SC300). It is ideal for plate coating due to its unique viscosity. Its coating greatly enables cell migration on cultured plate surfaces. Perfect for establishing primary cell lines, it can increase endothelial cell attachment, survival in culture, and cell growth. AlphaBioCoat Solution is great for both coating plates and T-flasks.

### Shipping and Storage

Product is shipped with an ice pack. Upon arrival AlphaBioCoat Solution should be stored at 2°C-8°C for two months. For long term storage keep AlphaBioCoat Solution at -20°C.

### Protocol

Add sufficient collagen solution to coat dishes, plates or inserts. 1-2 ml of solution is sufficient to cover a 35 mm dish. Incubate at room temperature in a biological safety cabinet partially covered for 1 hour. Carefully aspirate remaining solution. Rinse with proper volume of serum-free media to remove buffer solution. Coated plates are best used immediately but can be air dried and stored under sterile conditions at 2-8 °C for up to one week.

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

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**Protocol for T-25 flask**

1. Use 2ml of AlphaBioCoat Solution into one T-25 flask and make sure all surfaces are covered
2. Place flask in 37°C incubator for 30 minutes, dispose of AlphaBioCoat Solution by aspiration and the flask is ready to be used. (There is no need for overnight incubation)
3. Gently rinse the cells in with 5 ml 1XPBS at room temperature twice. Ensure the flask is at a neutral pH before seeding cells into the T-25 flask
4. Remove cells from the liquid nitrogen, place in a water bath to thaw cells (Note: don't spin the cells during the subculture process)
5. Suspend the cells with 5 ml of media. Transfer cells suspension directly into pre-coated T-25 flask
6. Place cells in a 37°C incubator
7. Follow the cell culture protocol for proliferating
8. Culture media is changed every 2 days

*Note: Handling of any product derived from an organism is potentially biohazardous. Proper precautions must be taken to avoid inadvertent exposure. Always wear gloves and safety glasses when working these materials. Never mouth pipette. We recommend following the universal procedures for handling products of an organism origin as the minimum precaution against contamination.*

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