

Fibronectin Solution Specification and Instruction Sheet



Fibronectin Solution

Fibronectin is a purified protein commonly used as an extracellular matrix attachment factor. Lifeline's Fibronectin Solution, when used to pre-coat cell culture surfaces, can be used to promote cell attachment of a variety of cell types *in vitro*. Lifeline's Fibronectin Solution is provided "ready-to-use" at a concentration of 0.1 mg/mL.

Component Storage

Store the Fibronectin Solution at 2 to 8°C. Do not use product beyond expiration date.

Safety and Use Statement

This product is for Research Use Only. This product is not approved for human or veterinary use or for use in *in vitro* diagnostics or clinical procedures.

The Lifeline Guarantee

Lifeline's rigorous quality control ensures sterility and performance to standardized testing criteria. Upon request, Lifeline will provide lot-specific QC test results, material safety data sheets, and certificates of analysis. See complete guarantee/warranty statement at lifelinecelltech.com or contact your Lifeline representative for more information.

Product	Part No.	Volume	Storage	Quality Control Testing
Fibronectin Solution, [0.1 mg/mL]	CM-0098	10 mL	2-8°C	<ul style="list-style-type: none"> • Sterility • Cell Attachment

Culture Vessel Format	Approximate* Surface Area	Fibronectin Coating Volume	Culture Medium Volume
T-25 flask	25 cm ² /flask	2 mL	5 mL
35 mm dish	8 cm ² /dish	0.64 mL	1.6 mL
60 mm dish	21 cm ² /dish	1.7 mL	4.2 mL
100 mm dish	55 cm ² /dish	4.4 mL	11 mL
6-well plate	9.5 cm ² /well	0.8 mL	2 mL
12-well plate	3.8 cm ² /well	0.3 mL	1 mL
24-well plate	1.9 cm ² /well	0.2 mL	0.5 mL
48-well plate	0.95 cm ² /well	0.08 mL	0.25 mL
96-well plate	0.32 cm ² /well	0.03 mL	0.1 mL

**The surface area values listed in the table above are approximate and will vary depending upon the brand of culture vessel used. Please refer to each manufacturer's specifications for exact values.*

To place an order, please visit lifelinecelltech.com or call technical and customer service at 877.845.7787.

Basic Aseptic Technique

Fibronectin Solution, cells, medium, and reagents should only be used in an aseptic environment, a Class II biological safety cabinet with front access and filtered laminar airflow, or an equivalent device. Always wear gloves and eye protection when working with these materials.

Wipe or spray all bottles and vials with 70% ethanol or isopropanol, especially around the area of the cap, before placing them in the biological safety cabinet. Allow these surfaces to dry completely before opening the bottle or vials. Transfer cells, medium or reagents with disposable sterile pipettes. Do not mouth pipette! Take up the volume needed into the pipette, being careful not to touch the sterile tip to the rim of the container or any other surface. Close the container and open the container into which the transfer is being made, again being careful not to touch any surfaces with the sterile tip. Transfer the material and close the container.

Wash your hands before and after working with cell cultures. Do not block airflow in a laminar flow hood as this may compromise sterility. Ensure that biological safety cabinets are certified routinely and that the HEPA filters are replaced regularly.

Preparing Fibronectin-Coated Tissue Culture Vessel(s)

1. Add the appropriate volume of the Fibronectin Solution to the culture vessel(s). See chart on page 1 for Fibronectin Solution volumes respective to culture vessel format.
2. Gently rock the culture vessel(s) to evenly coat surface.
3. Place culture vessel(s) in a 37°C, 5% CO₂ humidified incubator for a minimum of 3 hours, or overnight (recommended for convenience).

Note: Be sure that the culture vessel(s) maintain sterility, and do not dry out prior to being inoculated with cells.

4. Aspirate the excess Fibronectin Solution from the culture vessel(s) using sterile technique.

Note: Do not rinse the Fibronectin-coated surface after aspirating the excess Fibronectin Solution.

5. Add a minimum of 1 mL of the desired Lifeline® cell culture medium per 5 cm² surface area. See chart on page 1 for cell culture medium volumes, respective to culture vessel format.

Note: Please refer to the Medium Instruction Sheet respective to the cell type being cultured for exact feeding recommendations.

6. Inoculate the Fibronectin-coated culture vessel(s) with the desired cells.

Note: Please refer to the Cell Instruction Sheet respective to the cell type being cultured for exact inoculation density recommendations.

7. Incubate cells in a 37°C, 5% CO₂ humidified incubator.
8. For any question on Fibronectin coating or cell handling, please contact technical service. We are here to help.

Notes:

Call Lifeline Technical Service and Sales at 877.845.7787
or visit lifelinecelltech.com for more information

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