

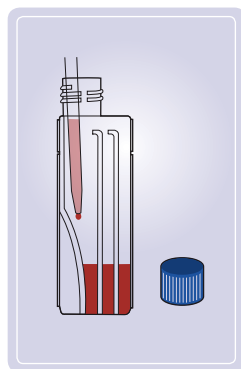
# Falcon® Cell Culture Multi-Flask

## Guidelines for Use

### INTRODUCTION

Falcon Cell Culture Multi-Flasks are available in 3- and 5-layer formats and provide 525 cm<sup>2</sup> or 875 cm<sup>2</sup> cell growth surface areas, respectively, which is equivalent to 3 or 5 times the surface area of a T-175 flask. Falcon Multi-Flasks offer the same benefits as the current format but in a more efficient and higher capacity design enabling you to grow more cells faster, easier, and in a more convenient manner. The footprint is the same as the T-175, so adaptation to your current equipment should be simple. This device allows you the benefit of preparing your cell suspension within the flask and removing your media or reagents using a pipet. This reduces the risk of contamination and speeds up the procedure.

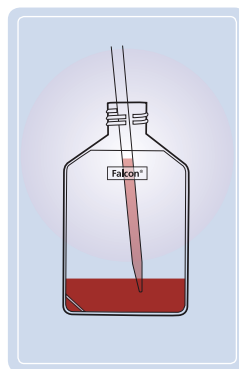
### ADDING MEDIA AND PREPARING CELL SUSPENSION WITHIN THE FALCON MULTI-FLASK



1. Add required amount of medium into Falcon Multi-Flask by pipet or by pouring using typical culture volumes of 25-50 mL per layer.
2. To avoid foaming of medium, allow liquid stream to flow along the slope of the Logo side of the Falcon Multi-Flask.

**Helpful hint:** A 10 mL pipet allows media to be dispensed at the bottom of the vessel.

25-100 mL pipets allow media to be dispensed just past the Logo.



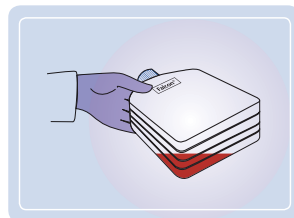
3. Dispense cell suspension from a concentrated stock into the growth medium using a Falcon 10 mL pipet (Cat. No. 357551 or 356551). Be sure to dip the pipet tip into the medium.

**Note:** The seeding density will vary depending on the cell type, medium, and culture duration needs. Begin with the same seeding density on a cells per centimeter square area to that used in standard flask for the cell type used.

### MIXING OF CELLS IN FALCON MULTI-FLASK

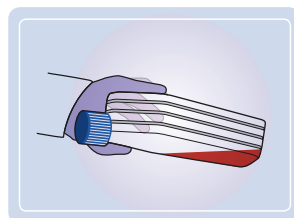


4. Mix position: Hold the Falcon Multi-Flask upright with the Logo facing you and tilt counter-clockwise to a 45° angle.



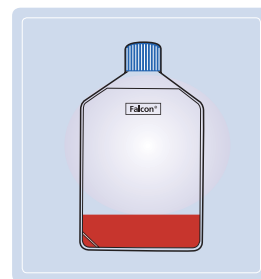
- 5a. Holding at the same angle, gently rotate the Falcon Multi-Flask forward (neck pointing away from you).
- 5b. Then, gently rotate it backward (neck pointing towards you).

**Note:** With each tilt, hold until liquid in the top layer drains fully.



6. Repeat Step 5 to ensure proper mixing. Bring back to mix position, as shown in Step 4. Then, proceed to Step 7 for equilibration.

### EQUILIBRATING FLUID



7. After mixing or adding cell suspension, place the Falcon Multi-Flask vertically on a flat work surface to equalize liquid volume among all the layers.

### ALTERNATE PROTOCOL

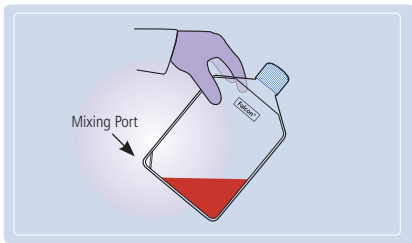
Adding cell suspension prepared external to the Falcon Multi-Flask

1. Create cell suspension externally from the Falcon Multi-Flask.
2. Add required amount of cell suspension into the Falcon Multi-Flask by pipet or by pouring.
3. To avoid foaming of medium, allow liquid stream to flow along the slope of the Logo side of the Falcon Multi-Flask.

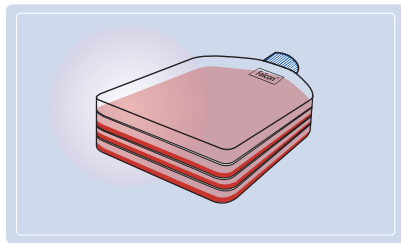
**FALCON®**

A Corning Brand

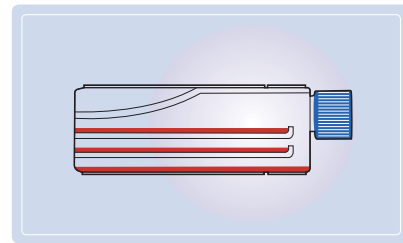
## PARTITION AND DISTRIBUTE LIQUID ONTO EACH LAYER



**8.** Hold the Falcon® Multi-Flask upright with the Logo facing you and tilt clockwise to a 45° angle on a flat work surface to partition the liquid into each of the layers. This position is recommended for transport.



**9.** While holding the Falcon Multi-Flask at a 45° angle, gently lay it flat onto the work surface with Logo facing up.

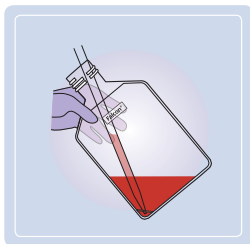


**10.** After placing the Falcon Multi-Flask flat on a work surface, gently rock back and forth and side-to-side to distribute cells evenly onto culture surfaces – taking care not to spill liquid from each layer.

## MEDIA REMOVAL

If exchange of media is required, follow Steps 7-10. You may choose to either aspirate or pour the media from the Falcon Multi-Flask.

### ASPIRATING METHOD

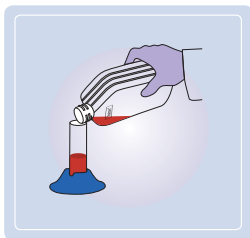


**11.** To aspirate or remove media tilt the Falcon Multi-Flask, with the Logo facing you, counter-clockwise to a 45° angle while inverting the Multi-Flask toward you.

**12.** Then, tilt the Falcon Multi-Flask to the right, continuing to aspirate all residual media.

*Helpful hint:* Aspirate media using a Falcon 2 mL aspirating pipet (Cat. No. 357558).

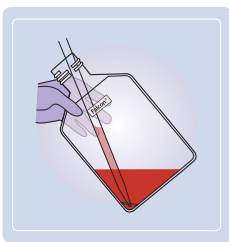
### POURING METHOD



**13.** With Logo facing down, pour spent media from the Falcon Multi-Flask.

*Helpful hint:* Pouring is easier when the Logo is facing you and the multi-flask is tilted at a counter-clockwise 45° angle.

## CELL HARVESTING



**14.** Add dissociating reagent ( $\geq 5$  mL per layer) based on preferred protocol and bring to mix position (Step 4). Then, follow Steps 7-10.

**15.** Neutralize with inactivating solution and mix following Steps 4-10. Gently swirl to dislodge cells completely.

**16.** Pipetting Method: Follow “Media Removal” protocol but collect cell suspension using a Falcon 10 mL serological pipet (Cat. No. 357551).

**17.** Follow Step 13 “Pouring Method”. Pour detached cell suspension into a Falcon conical tube (Cat. No. 352070).

**18.** Rinse with additional media as needed.

*Helpful hint:* Pouring is easier when the Logo is facing you and the multi-flask is tilted at a counter-clockwise 45° angle.

Corning acquired the Discovery Labware Business including the Falcon® brand. For information, visit [www.corning.com/discoverylabware](http://www.corning.com/discoverylabware).

For a listing of trademarks, visit us at [www.corning.com/lifesciences/trademarks](http://www.corning.com/lifesciences/trademarks). Corning Incorporated, One Riverfront Plaza, Corning, NY 14831-0001

## PRODUCT SPECIFICATIONS

WORKING VOLUME RANGE	$\geq 5$ mL per layer for dissociating $\leq 50$ mL per layer for cell expansion
MOLDED-IN GRADUATIONS	0 to 50 mL per layer in 10 mL increments
GRADUATION ACCURACY	10%
CAP VENT MEMBRANE	0.2 $\mu$ m hydrophobic membrane
CELL GROWTH SURFACE	Tissue culture-treated, optically clear

## ORDER INFORMATION

### Falcon Cell Culture Multi-Flask

Description	Qty./Pack	Qty./Case	Cat. No.
3-LAYER TISSUE CULTURE-TREATED, 525 CM <sup>2</sup>	2	12	353143
5-LAYER TISSUE CULTURE-TREATED, 875 CM <sup>2</sup>	1	8	353144

### U.S. Orders

tel: 800.492.1110  
e-mail: [CLSCustServ@corning.com](mailto:CLSCustServ@corning.com)

### Outside the U.S.

Contact your local distributor or visit [www.corning.com/lifesciences](http://www.corning.com/lifesciences) to locate your nearest Corning office.

## ACCESSORIES

Description	Qty./Pack	Qty./Case	Cat. No.
<b>Falcon Pipets</b>			
ASPIRATING PIPET 2 ML INDIVIDUALLY WRAPPED	50	200	357558
10 ML INDIVIDUALLY WRAPPED PAPER-PLASTIC	50	200	357551
10 ML INDIVIDUALLY WRAPPED ALL-PLASTIC	50	200	356551

### Falcon Tubes

50 ML POLYPROPYLENE CONICAL TUBE	25	500	352070
175 ML POLYPROPYLENE CONICAL TUBE	8	48	352076
225 ML POLYPROPYLENE CONICAL TUBE	8	48	352075

### U.S. Orders

Contact your authorized distributor to place your order.

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