DATA SHEET

ISO9001 & ISO13485 & ISO11137

Product Name:	**Multi-layer Cell Culture Flask**
Product Application:	**NEST cell culture flasks are an ideal solution for enhanced cell attachment and growth of a variety of primary cells and transformed cells in serum free or serum-containing cultures.**
Product Materials:	**PS（bottle）+ PP（cap）** **Meets *USP, Class VI standards***
product Specifications:	Temperature range: stored at room temperature. Shelf life: 3 Years after date of production (ensure package is in good)
Sterilization:	**Yes.** Sterilized by E-beam, Sterility Assurance Level: SAL=10^{-6}. The product has been irradiated and dosimetrically released based on ANSI/AAMI/ISO 11137
Pyrogens: **RNase/DNase Testing:**	Non-Pyrogenic DNase/RNase free
BSE/TSE:	These products are deemed animal free.
Performance Testing:	Each manufacturing lot is sampled and tested in accordance with standard operating procedures. Appearance inspection: qualified　　Flatness testing: qualified Hydrophilic testing: qualified　　Packaging inspection: qualified
Features:	1. High clarity medical grade polystyrene material 2. Two types of cap style: vent caps & plug seal cap 3. Vent caps with 0.22um hydrophobic filters for gas exchange without contamination 4. Culture surface TC treated, good for cell attachment and growth. 5. Growth area: 870 cm² 6. Individually Packaged in sterile bag.
Guidelines For Use:	**Culture of cells：** 1. Mix cell suspension with medium: Prepare cell suspension of required concentration in a container. Recommended volume is about 30- 50mL per layer. 2. Add the mixed liquid into the Multi-layer Flask slowly with serological pipettes. To avoid foam and bubbles, allow liquid stream to flow along the slope of the Multi-layer

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Flask. (Save a little liquid in pipette each time.)

Tips: A 10 mL pipette allows media to be dispensed at the bottom of the vessel. A 25 mL pipette allows media to be dispensed just past the NEST Logo.

3. Hold the Multi-layer Flask upright with the Logo facing you and tilt clockwise to a 45° angle on a flat work surface to partition the liquid evenly into each layer.

4. While holding the Multi-layer Flask at a 45°angle, gently lay it flat onto the work surface with logo facing up.

5. After placing the Multi-layer Flask flat on a work surface, gently rock back and forth and side-to-side to distribute cells evenly onto culture surfaces.

6. Put the flask quickly and slightly into the incubator.

Tips: Be careful to avoid foaming of medium, and not to spill liquid from each layer.

Removal of culture medium:

You may choose to either aspirate or pour the media from Multi-layer Flask.

Aspirating method: To aspirate or remove media, Hold the Multi-layer Flask upright, with the NEST Logo facing you, tilt counter-clock wise to a 45° angle. Then, Extend the pipette to the bottom to aspirate the medium until it is completely aspirated.

Pouring method: Hold the Multi-layer Flask upright, with Logo facing you, tilt counter-clock wise to a 45° angle and pour spent media from Multi-layer Flask

Tips: It is recommended to use a NEST 10mL aspirating pipette when aspirating the culture medium, so that the medium can be completely sucked up.

Collection of cells:

1、Wash with buffer for one time and add dissociating reagent (≥5mL per layer). Then, follow Steps 3-5 to distribute to dissociating reagent to each layer.

2、Neutralize with inactivating solution and mix following Steps 3-5. Gently swirl to dislodge cells completely.

3、Follow “Aspirating Method” protocol and collect cell suspension using a NEST 10mL serological pipette.

4、Follow “Pouring Method”. Pour the cell suspension into a NEST conical tube.

5、Rinse with additional wash buffer if needed.

6、Search "NEST Multi-layer Flask" video on NEST website or Youtube.

Recommendations	**Please be gently when use the 5-layer cell culture flask to avoid air bubbles. Air bubbles will lead the culture medium flow from the upper layer to the lower layer.**

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Product Range

3-layer Cell Culture Flask

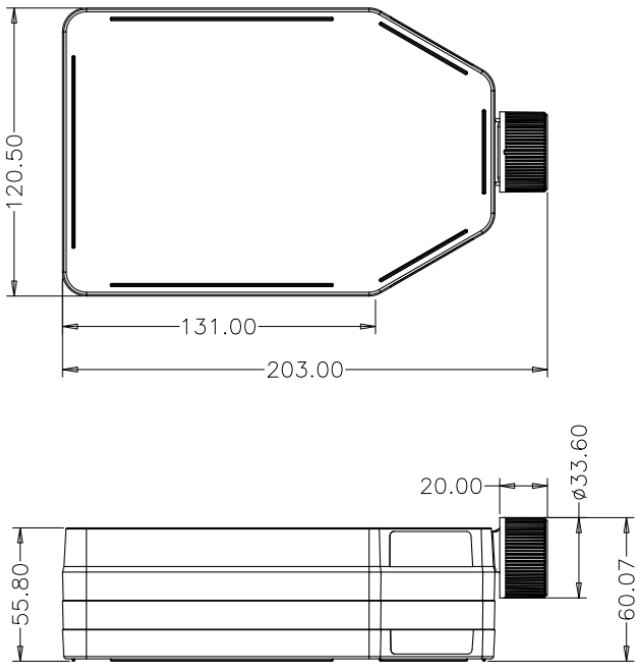
Cat. No.	Growth area	Cap Style	Size (mm)			TC Treated	/Pack	/Case
			Length	Width	Height			
731301	520 cm2	Plug Seal Cap	203	120.5	60.1	Yes	1	12
731302		Vent Cap						

5-layer Cell Culture Flask

Cat. No.	Growth area	Cap Style	Size (mm)			TC Treated	/Pack	/Case
			Length	Width	Height			
731001	870 cm2	Plug Seal Cap	203.6	120.5	84.3	Yes	1	8
731002		Vent Cap						

Technical Drawing

3-layer Cell Culture Flask



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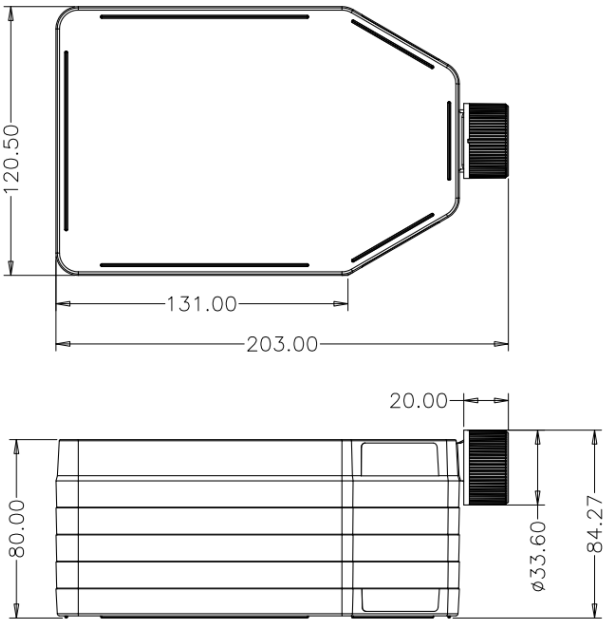
5-layer Cell Culture Flask



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