

<b>Product Name:</b>	<b>Multi-layer Cell Culture Flask</b>
<b>Product Application:</b>	<b>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.</b>
<b>Product Materials:</b>	<b>PS (bottle) + PP (cap)</b> <b>Meets USP, Class VI standards</b>
<b>product Specifications:</b>	Temperature range: stored at room temperature. Shelf life: 3 Years after date of production ( ensure package is in good )
<b>Sterilization:</b>	<b>Yes.</b> Sterilized by E-beam, Sterility Assurance Level: SAL=10 <sup>-6</sup> . The product has been irradiated and dosimetrically released based on ANSI/AAMI/ISO 11137
<b>Pyrogens:</b>	Non-Pyrogenic
<b>RNase/DNase Testing:</b>	DNase/RNase free
<b>BSE/TSE:</b>	These products are deemed animal free.
<b>Performance Testing:</b>	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
<b>Features:</b>	<ol style="list-style-type: none"> <li>1. High clarity medical grade polystyrene material</li> <li>2. Two types of cap style: vent caps &amp; plug seal cap</li> <li>3. Vent caps with 0.22um hydrophobic filters for gas exchange without contamination</li> <li>4. Culture surface TC treated, good for cell attachment and growth.</li> <li>5. Growth area: 870 cm<sup>2</sup></li> <li>6. Individually Packaged in sterile bag.</li> </ol>
<b>Guidelines For Use:</b>	<b>Culture of cells:</b> <ol style="list-style-type: none"> <li>1. Mix cell suspension with medium: Prepare cell suspension of required concentration in a container. Recommended volume is about 30- 50mL per layer.</li> <li>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</li> </ol>

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.**

#### Head Office

No. 530, Xida Road, Meicun Industrial Park, Xinwu District, Wuxi, Jiangsu, China  
Tel: +86+ 510-6800 6788 Email: [info@nest-wuxi.com](mailto:info@nest-wuxi.com)  
Online: [www.cell-nest.com](http://www.cell-nest.com)

#### Overseas

NEST USA (New Jersey/ Phoenix)  
NEST scientific 株式会社 (Yokohama, Japan)  
NEST Scientific Europe B.V (Netherlands)  
Nest Scientific (MENA) FZE (Sharjah, United Arab Emirates)

## Product Range

### 3-layer Cell Culture Flask

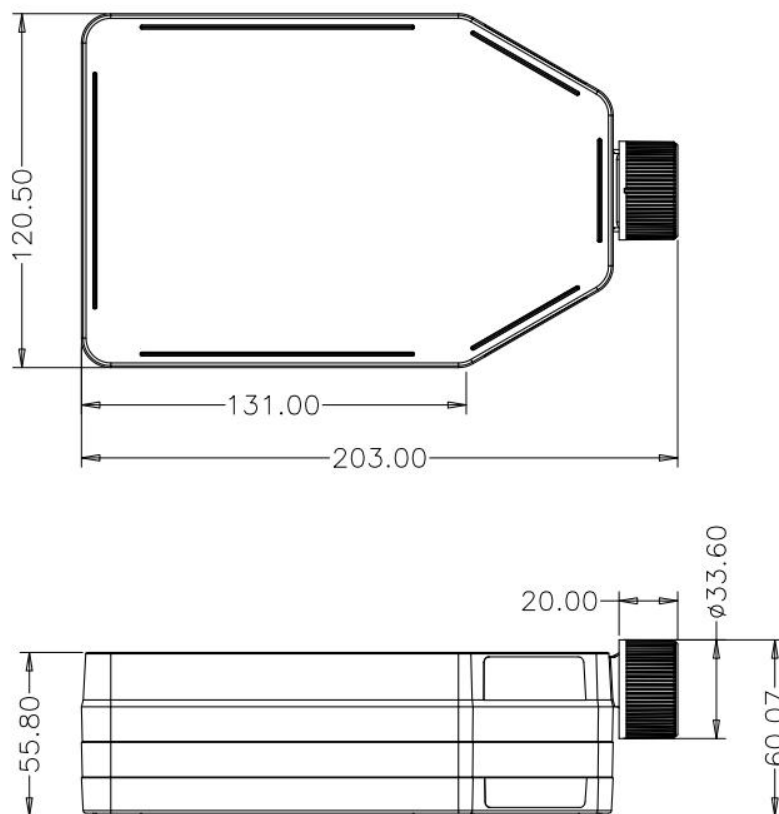
Cat. No.	Growth area	Cap Style	Size (mm)			TC Treated	/Pack	/Case
			Length	Width	Height			
731301	520 cm <sup>2</sup>	Plug Seal Cap	203	120.5	60.1	Yes	1	12
731302		Vent Cap						

### 5-layer Cell Culture Flask

Cat. No.	Growth area	Cap Style	Size (mm)			TC Treated	/Pack	/Case
			Length	Width	Height			
731001	870 cm <sup>2</sup>	Plug Seal Cap	203.6	120.5	84.3	Yes	1	8
731002		Vent Cap						

## Technical Drawing

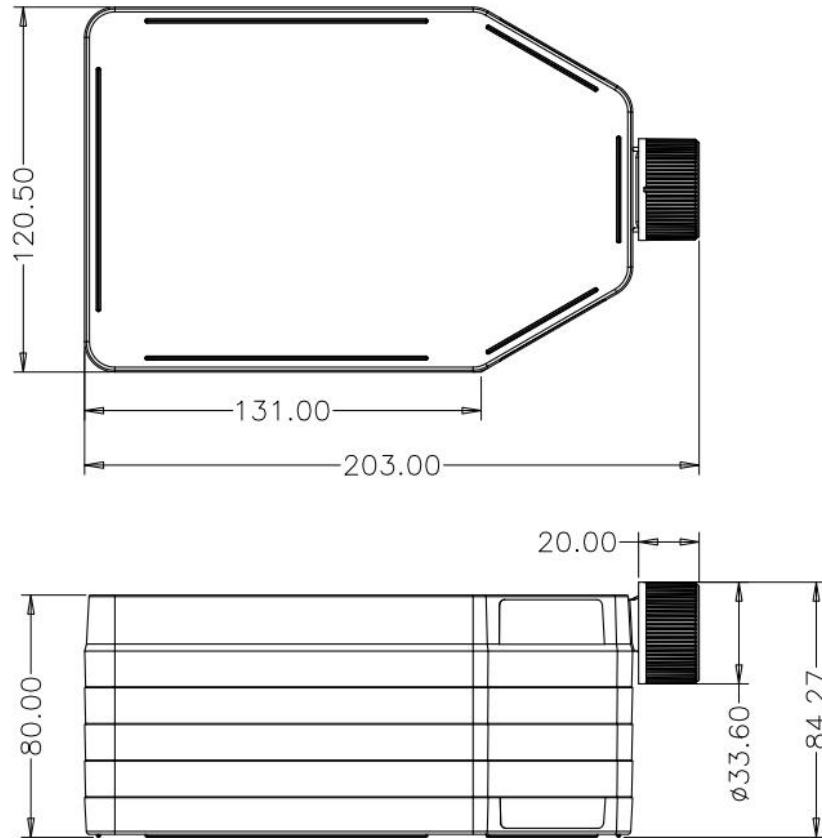
### 3-layer Cell Culture Flask



**Head Office**  
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5-layer Cell Culture Flask



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