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| <b>Product Name:</b>           | <b>Cell Insert</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Product Application:</b>    | <p>Cell inserts are commonly used in cell experiments, such as: co-culture experiments, chemotaxis experiments, cell migration experiments, cell invasion and drug transport experiments. Permeable supports may effectively improve the culture of polar cells, since these supports allow cells to secrete on and absorb molecules from their basal and apical surfaces to metabolize in a more natural way, as well as to stimulate the in vivo environment to the maximum extent for culturing of some special cell lines.</p> <ol style="list-style-type: none"> <li><b>1. PC membrane:</b> The membrane has excellent cell adhesion and can be used to culture most types of cells without matrix coating, therefore is suitable for transport studies and other applications that need to achieve optimal cell growth. Besides, PC membrane is also very for barrier analysis.</li> <li><b>2. PET membrane:</b> With better optical clarity, it facilitates cell observation under a microscope and cell imaging.</li> </ol> |
| <b>Product Materials:</b>      | <p><b>PS + PC/ PET (membrane)</b></p> <p>Meets USP, Class VI standards</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>product Specifications:</b> | <p>Temperature range: stored at room temperature</p> <p>Shelf life: 3 Years after date of production ( ensure package is in good )</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Sterilization:</b>          | <p><b>Yes.</b></p> <p>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</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Pyrogens:</b>               | Non-Pyrogenic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>RNase/DNase:</b>            | DNase/RNase free                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>BSE/TSE:</b>                | These products are deemed animal free.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Performance Testing:</b>    | <p>Each manufacturing lot is sampled and tested in accordance with standard operating procedures.</p> <p>Appearance inspection: qualified      Hydrophilic test: qualified</p> <p>Packaging inspection: qualified</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Features</b>            | <ol style="list-style-type: none"> <li>1. Innovative edge design for convenient sampling.</li> <li>2. Great insertion versatility, can match with multiple brands: 6-well, 12-well, 24-well.</li> <li>3. PC membrane: low adsorption rate, reduces the loss of small-molecule proteins and other compounds.</li> <li>4. PET membrane: excellent transparency, providing better optical clarity for easy observation of cell status</li> <li>5. The membrane materials have passed the <i>USP, Class VI</i> toxicity tests and are used for the field of medical devices</li> <li>6. Compatible with most solvents used for fixing and staining.</li> </ol>                                                                                                                                                                                                                                                                                                        |
| <b>Indications for Use</b> | <ul style="list-style-type: none"> <li>• Before use, add the liquid medium into the wells of the multi-well plate and put the insert in, then add the liquid medium containing cells into the insert;</li> <li>• Pre-balance: add the liquid medium into the multi-well plate and put the insert in, then put the whole thing into an incubator for at least 1 hour, or overnight;</li> <li>• Check the volume of the liquid medium regularly, and replenish fresh medium, if necessary.</li> <li>• Nevertheless, the cell layers may be fixed and stained directly in the insert using basic cytological methods. Note: avoid using solvents that may dissolve PC membranes.</li> <li>• Fix and stain the cells in the insert directly and the membrane may be cut off with a scalpel for long-term storage.</li> </ul>                                                                                                                                          |
| <b>Precautions</b>         | <ul style="list-style-type: none"> <li>• Adhesion of the cells growing on the permeable support (membrane) is sensible to the starting inoculation density, so it is necessary to use different inoculation densities to ensure optimum growth.</li> <li>• During the culture process, when aspirating or adding liquid through the interspace between the upper layer and the well, please be careful and go slowly to avoid membrane damage;</li> <li>• Before culturing cells, incubating the permeable support in the medium may promote the adhesion and distribution of cells.</li> <li>• Bubbles often occur between the lower layer of the liquid medium and the insert, once the bubbles are generated, the chemotaxis of the lower medium will be weakened or even disappears, so special care must be taken during cell inoculation. If any bubble occurs, lift the insert up to remove the bubbles and then put the insert into the plate.</li> </ul> |

## Product Specification

| Specifications           | Insert Diameter (mm) | Volume of each well (mL) | Inner Volume of Insert (mL) | Growth Area of Insert Membrane (cm <sup>2</sup> ) | Pore Size of Membrane (μm) | Membrane Density (pores/cm <sup>2</sup> ) |
|--------------------------|----------------------|--------------------------|-----------------------------|---------------------------------------------------|----------------------------|-------------------------------------------|
| 6 Insert+6 well plate    | 24                   | 2.6                      | 1.5                         | 4.67                                              | 0.4                        | 1x10 <sup>8</sup>                         |
| 12 Inserts+12 well Plate | 12                   | 1.5                      | 0.5                         | 1.12                                              | 1.0                        | 2x10 <sup>7</sup>                         |
| 12 Inserts+24 well Plate | 6.5                  | 0.6                      | 0.1                         | 0.33                                              | 3.0                        | 2x10 <sup>6</sup>                         |
| 100mm Dish               | 75                   | 13                       | 9                           | 44                                                | 5.0                        | 4x10 <sup>5</sup>                         |
|                          |                      |                          |                             |                                                   | 8.0                        | 1x10 <sup>5</sup>                         |

## Product Range

## Cell Culture Inserts, PC Membrane

Individually packaged in peelable Tyvek film and Blister, Sterile

| TC Treated Cat. No. | Non-Treated Cat. No. | Product Description                   | Pore Size (μm) | Membrane Transparence | /Pack | /Case |
|---------------------|----------------------|---------------------------------------|----------------|-----------------------|-------|-------|
| 723001              | 723011               | 6 Cell Culture Inserts+6 Well Plate   | 3.0            | Translucent           | 6     | 60    |
| 724001              | 724011               | 12 Cell Culture Inserts+12 Well Plate | 3.0            | Translucent           | 12    | 120   |
| 725001              | 725011               | 12 Cell Culture Inserts+24 Well Plate | 3.0            | Translucent           | 12    | 120   |
| 723101              | 723111               | 6 Cell Culture Inserts+6 Well Plate   | 0.4            | Opaque                | 6     | 60    |
| 724101              | 724111               | 12 Cell Culture Inserts+12 Well Plate | 0.4            | Opaque                | 12    | 120   |
| 725101              | 725111               | 12 Cell Culture Inserts+24 Well Plate | 0.4            | Opaque                | 12    | 120   |
| 724201              | 724211               | 12 Cell Culture Inserts+12 Well Plate | 5.0            | Translucent           | 12    | 120   |
| 725201              | 725211               | 12 Cell Culture Inserts+24 Well Plate | 5.0            | Translucent           | 12    | 120   |
| 723301              | 723311               | 6 Cell Culture Inserts+6 Well Plate   | 8.0            | Translucent           | 6     | 60    |
| 724301              | 724311               | 12 Cell Culture Inserts+12 Well Plate | 8.0            | Translucent           | 12    | 120   |
| 725301              | 725311               | 12 Cell Culture Inserts+24 Well Plate | 8.0            | Translucent           | 12    | 120   |
| 726001              | /                    | 100mm Cell Culture Insert-Dish        | 3.0            | Translucent           | 1     | 10    |

**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)

**Oversea** 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)

ISO9001 &amp; ISO13485 &amp; ISO11137

**Cell Culture Inserts, PET Membrane**

Individually packaged in peelable Tyvek film and Blister, Sterile

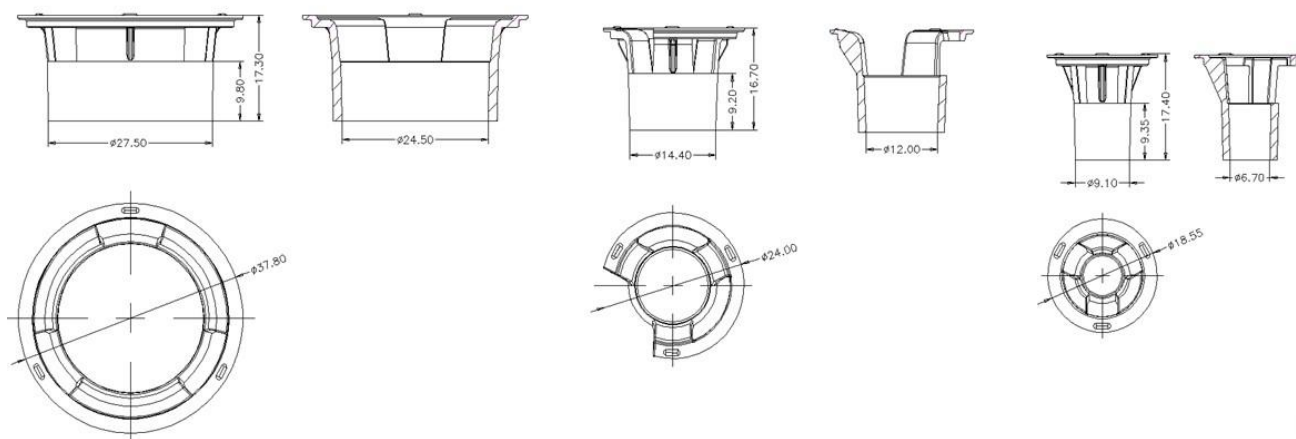
| TC Treated<br>Cat. No. | Non-Treated<br>Cat. No. | Product Description                   | Pore Size<br>( $\mu\text{m}$ ) | Membrane<br>Transparence | /Pack | /Case |
|------------------------|-------------------------|---------------------------------------|--------------------------------|--------------------------|-------|-------|
| 723121                 | 723131                  | 6 Cell Culture Inserts+6 Well Plate   | 0.4                            | Opaque                   | 6     | 60    |
| 724121                 | 724131                  | 12 Cell Culture Inserts+12 Well Plate | 0.4                            | Opaque                   | 12    | 120   |
| 725121                 | 725131                  | 12 Cell Culture Inserts+24 Well Plate | 0.4                            | Opaque                   | 12    | 120   |
| 723021                 | 723031                  | 6 Cell Culture Inserts+6 Well Plate   | 3.0                            | Translucent              | 6     | 60    |
| 724021                 | 724031                  | 12 Cell Culture Inserts+12 Well Plate | 3.0                            | Translucent              | 12    | 120   |
| 725021                 | 725031                  | 12 Cell Culture Inserts+24 Well Plate | 3.0                            | Translucent              | 12    | 120   |
| 723421                 | 723431                  | 6 Cell Culture Inserts+6 Well Plate   | 1.0                            | Transparent              | 6     | 60    |
| 724421                 | 724431                  | 12 Cell Culture Inserts+12 Well Plate | 1.0                            | Transparent              | 12    | 120   |
| 725421                 | 725431                  | 12 Cell Culture Inserts+24 Well Plate | 1.0                            | Transparent              | 12    | 120   |
| 723321                 | 723331                  | 6 Cell Culture Inserts+6 Well Plate   | 8.0                            | Transparent              | 6     | 60    |
| 724321                 | 724331                  | 12 Cell Culture Inserts+12 Well Plate | 8.0                            | Transparent              | 12    | 120   |
| 725321                 | 725331                  | 12 Cell Culture Inserts+24 Well Plate | 8.0                            | Transparent              | 12    | 120   |



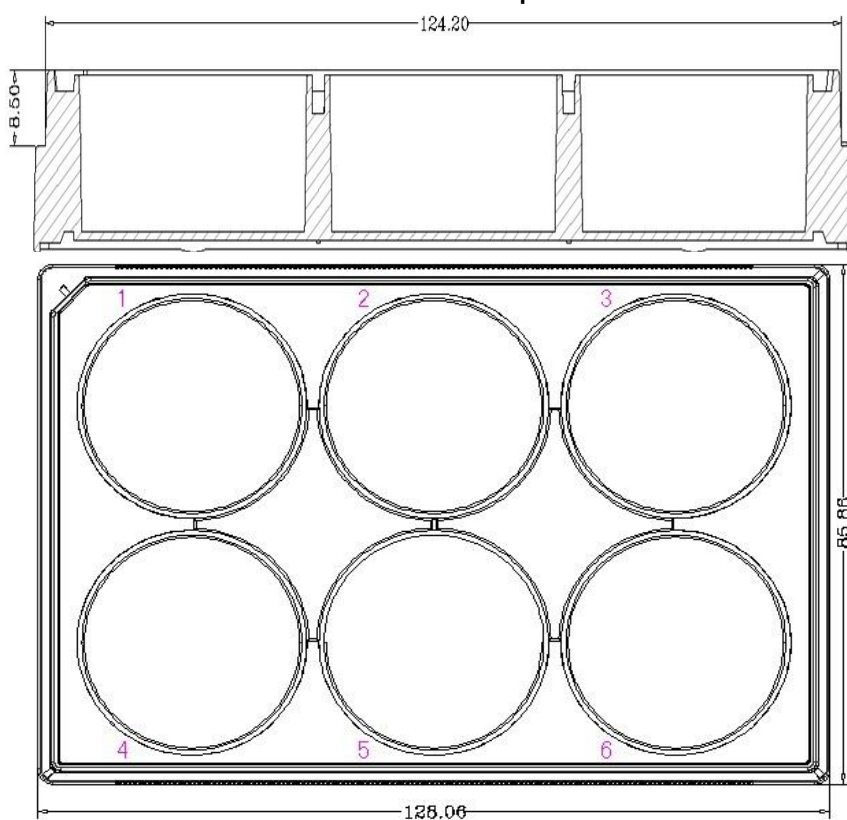
**Head Office** No. 530, Xida Road, Meicun Industrial Park, Xinwu District, Wuxi,  
Jiangsu, China  
Tel: +86+ 510-6800 6788 Email: [info@nest-wuxi.com](mailto:info@nest-wuxi.com)  
Online: [www.cell-nest.com](http://www.cell-nest.com)

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Emirates)

## Technical Drawing



## 6 well cell culture plate

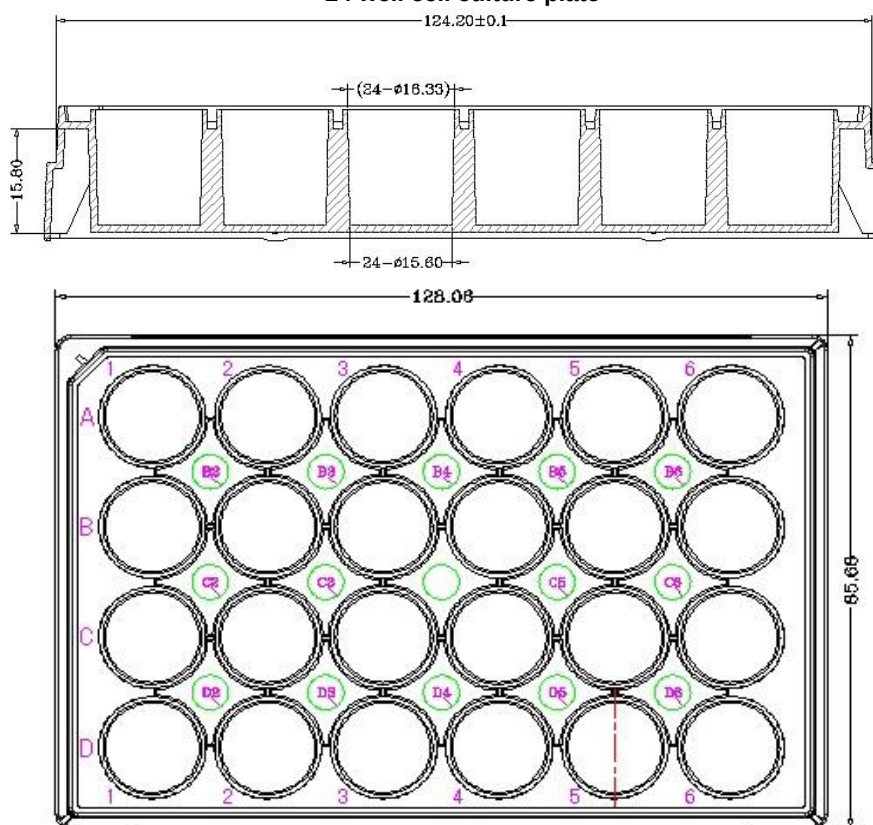


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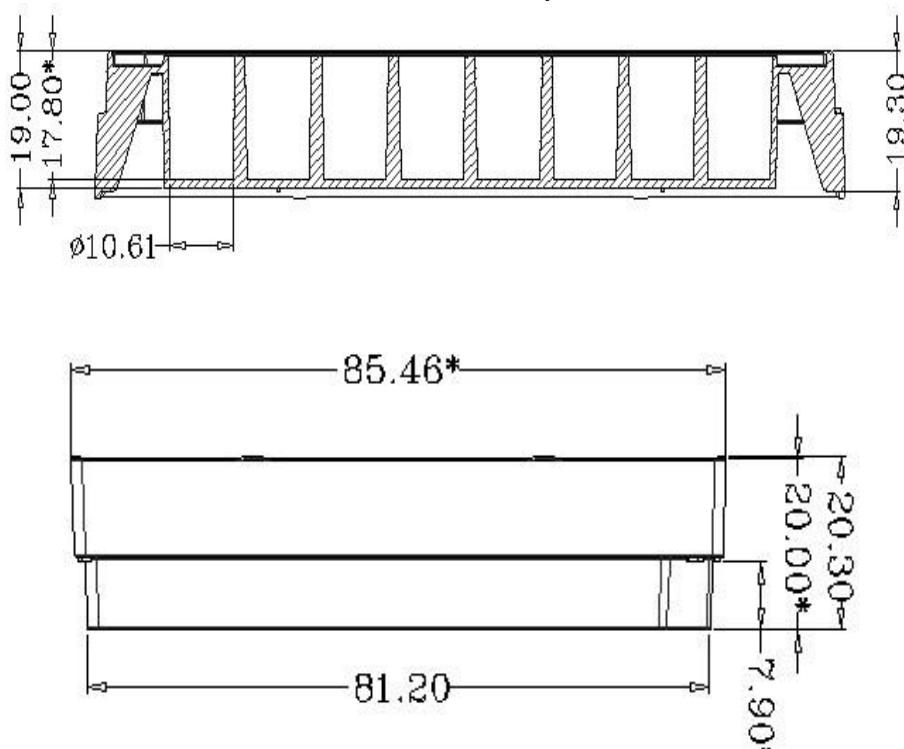
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ISO9001 & ISO13485 & ISO11137

## 24 well cell culture plate



## 48 well cell culture plate



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