

100 mm Tissue Culture Dish Insert

Tissue Culture Dish Inserts are extensively used in a variety of cell experiments. The membrane technology is used to simulate the original growth environment of cells and make cells growing in vitro closer to cells growing in vivo in terms of morphology and function. The 100 mm Tissue Culture Dish Inserts from JET BIOFIL are made of translucent polycarbonate membranes (PC), providing superior cell adhesion, high pore density, and enhanced capacity for transmembrane substance exchange. The inserts are ideal for various tests such as co-culturing and cellular molecular transport, as well as research into cell functions like transport, absorption and secretion.

Insert Diameter: 75 mm Culture dish Diameter: 100 mm
 Culture area of etched membrane: 44 cm² Membrane pore size: 0.4 μm, 3.0 μm
 Material: Membrane: Polycarbonate (PC); The main body: Polystyrene (PS);
 Conforming to USP Class VI standards



Features

- ✦ The inserts paired with translucent PC membrane feature high pore density and are ideal for cell migration and invasion.
- ✦ PC membrane boasts strong chemical compatibility, making it compatible with most organic solvents and stains.
- ✦ Surface treated with TC, suitable for adhesion of various cell types.
- ✦ The suspended design positions the etched membrane approximately 1.5 mm from the insert bottom, preserving monolayer cells due to insert movement and preventing the loss of media due to capillary action. ①
- ✦ The inserts have three side openings design that facilitates easy access for tests and allows for gas exchange in the culture environment. These openings also allow standard pipettes be able to added or removed samples from the bottom compartment. ②
- ✦ Sterilized by irradiation, SAL 10⁻⁶
- ✦ DNase/RNase-free, non-pyrogenic and non-cytotoxic

Recommended Uses

Membrane Pore Size (μm)	Recommended Uses
0.4	Co-culture and studies on transport, secretion and diffusion of small molecules
3.0	Studies on cell migration, chemotaxis, and invasion experiments, etc.

Hint: The PC membrane works well with histological fixatives such as methanol and formaldehyde. It is also tolerant to various alcohols, amines, lipids, ethers, ketones, petroleum-based solvents, and other solvents like halogenated hydrocarbons and DMSO. However, it is not recommended for use with strong acids and bases.

Ordering Information

Cat. No.	Membrane Diameter (mm)	Culture Area (cm ²)	Membrane Pore Size (μm)	Membrane Material	Optical Properties	Recommended Working Volume (mL)		Sterile	Qty. Per Bag/Case
						Culture Dish	Insert		
TCS001100	75	44	0.4	PC	Translucent	13	9	Y	1/24
TCS002100	75	44	3.0	PC	Translucent	13	9	Y	1/24

