SpheroX™ 96Ukit Cell Sphere Culture 96U Well Plate Kit

Product introduction

Applicable Product Catalog: EFL-SP101

SpheroX™ 96Ukit cell sphere culture 96U well plate kit is an ultra-low adhesion well plate introduced by the EFL team specifically for cell sphere 3D culture. This product uses nano-encapsulation technology to form an ultra-thin hydrophilic coating on the surface of the plate, which prevents cells from growing against the wall, and with the U-shaped bottom structure, cells can gradually aggregate into spheres.

SpheroX™ 96Ukit well plates can be used to generate uniformly sized cell spheres in bulk for a wide range of applications in tumor research, drug screening, organoid construction and tissue engineering.

Product component

Item	Character	Package Size	Notes
96 Well Cell Culture Plate	U-bottom	5 Kits	Sterile products
Anti-adherent Coating Solution	Colorless and transparent liquid	50 mL	

Storage

Room temperature; Production date and expiry date as shown on the packaging.

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Well plate coating treatment

1. Add anti-adhesive coating solution to **SpheroX™ 96Ukit** well plates; (100μL per well, avoid air bubbles when adding solution);
2. Place the plate in a CO_2 incubator for at least 10 min; (Overnight is better)
3. Extract the plate, remove the coating solution and proceed to cell inoculation. (Remove the solution completely)

Cell Sphere Cultures

1. Add cell suspension (100-200 μL/well, 1k-10k cells/well) to the coated well plates;
2. Cells gradually form spheres within 24-48h of culture (speed of sphere formation, denseness, morphology, etc. are cell type related) ;
3. After spheroid formation, use a 100-200 μL Pipette gun to gently change the medium to ensure the integrity of the cell spheres (approximately 50 μL of medium can be retained in the wells during the change to avoid aspiration of the spheres);
4. The cell spheres can be collected for subsequent experiments using a 1mL Pipette according to experimental needs.

Notes:

- The cell spheres are tens to hundreds of microns in size. Visually they are pinpoint size and milky white. Handle as gently as possible to avoid damage or loss of cell balls;
- Cell sphere collection: transfer the cell sphere suspension into a pointed-bottom centrifuge tube using a 1mL Pipette, leave to settle and remove the supernatant;
- Confirm cell sphere denseness before proceeding to the next step of the experiment.