

Product sheet

A549/DDP | 305047

General Information

Description A549/DDP is a cell line derived from A549, a human lung carcinoma cell line. It is characterized by its ability to grow in suspension and its high tumorigenicity. The cell line is maintained in RPMI 1640 medium supplemented with 10% fetal bovine serum (FBS). It is a highly proliferative cell line that is commonly used in cancer research and drug discovery.

Organism Human
Tissue Lung

Cell Line Characteristics

Morphology Epithelial
Growth properties Adherent

Identification and Accession

Citation A549/DDP (ATCC CCL-221) | Cytion 305047
Biosafety level 1
NCBI_TaxID 9606
CellosaurusAccession CVCL_C0W4

Media and Reagents

Culture Medium

RPMI 1640, w: 2.0 mM NaHCO_3 , w: 2.0 g/L NaHCO_3 (Cytion 820700a)

Supplements 10% FBS

Dissociation Reagent Trypsin

HEK293T/DT10 | 305047

Subculturing

Remove the medium and wash cells with PBS. Add 2 ml of trypsin solution to each flask. Incubate at 37°C for 5-10 minutes. Add 3 ml of PBS to stop the reaction. Scrape cells into a tube and centrifuge at 300 x g for 5 minutes. Resuspend in 1 ml of PBS.

Fluid renewal

2 x 3 days

Freeze medium

Remove the medium and wash cells with PBS. Add 1 ml of freezing medium (HEK293T/DT10 + 10% DMSO) to each flask. Incubate at 37°C for 10 minutes. Harvest cells and resuspend in 1 ml of freezing medium.

Thawing and Culturing Cells

1. Thaw the vial in a 37°C water bath. Add 10 ml of pre-warmed HEK293T/DT10 medium to the flask. Gently mix and incubate at 37°C for 24 hours.
2. Remove the medium and wash cells with PBS. Add 2 ml of trypsin solution to each flask. Incubate at 37°C for 5-10 minutes. Add 3 ml of PBS to stop the reaction. Scrape cells into a tube and centrifuge at 300 x g for 5 minutes. Resuspend in 1 ml of PBS.
3. Seed cells into a 24-well plate at a density of 1 x 10⁵ cells per well. Incubate at 37°C for 24 hours.
4. Remove the medium and wash cells with PBS. Add 1 ml of freezing medium (HEK293T/DT10 + 10% DMSO) to each flask. Incubate at 37°C for 10 minutes. Harvest cells and resuspend in 1 ml of freezing medium.
5. Seed cells into a 24-well plate at a density of 1 x 10⁵ cells per well. Incubate at 37°C for 24 hours.
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8. Remove the medium and wash cells with PBS. Add 2 ml of trypsin solution to each flask. Incubate at 37°C for 5-10 minutes. Add 3 ml of PBS to stop the reaction. Scrape cells into a tube and centrifuge at 300 x g for 5 minutes. Resuspend in 1 ml of PBS.

Incubation Atmosphere

37°C, 5% CO₂, humidified

Flask Coating

None

Shipping Conditions

Store at -78°C. Ship on dry ice.

Storage Conditions

Store at -150°C for 196 days.

HEK293T/DT10 / HEK293T/DT10 / HLA

