

A549/DDP | 305047

General information

Description	A549/DDP is a cell line derived from A549, a human epithelial cell line. It is characterized by its ability to form large, multinucleated cells. The cell line is maintained in a medium containing 10% FBS. It is a non-adherent cell line and is used for various research purposes, including drug screening and cell biology studies.
Organism	Human
Tissue	Epithelial

Cell characteristics

Morphology	Epithelial
Growth properties	Non-adherent

Identification and safety

Citation	A549/DDP (Cytion 305047)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_C0W4

Media and supplements

Media

Culture Medium	RPMI 1640, w: 2.0 mM NaHCO_3 (Cytion 820700a)
Supplements	10% FBS
Dissociation Reagent	Trypsin

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Subculturing Cells are grown in 25 cm² flasks in DMEM supplemented with 10% FBS. For subculturing, cells are trypsinized with 2.5 ml Trypsin-EDTA (T25, 3-5 min) and centrifuged at 300 x g for 5 min. Cells are resuspended in 1 ml DMEM and seeded into new flasks.

Fluid renewal 2-3 times per week

Freeze medium Cells are frozen in DMEM supplemented with 10% FBS (FBS) + 10% DMSO. Cells are seeded into new flasks and grown in DMEM.

- Thawing and Culturing Cells**
1. Cells are thawed in a 37°C water bath and immediately seeded into a 25 cm² flask.
 2. Cells are grown in DMEM supplemented with 10% FBS. Cells are trypsinized with 2.5 ml Trypsin-EDTA (T25, 3-5 min) and centrifuged at 300 x g for 5 min.
 3. Cells are resuspended in 1 ml DMEM and seeded into new flasks.
 4. Cells are grown in DMEM supplemented with 10% FBS. Cells are trypsinized with 2.5 ml Trypsin-EDTA (T25, 3-5 min) and centrifuged at 300 x g for 5 min.
 5. Cells are resuspended in 1 ml DMEM and seeded into new flasks.
 6. Cells are grown in DMEM supplemented with 10% FBS. Cells are trypsinized with 2.5 ml Trypsin-EDTA (T25, 3-5 min) and centrifuged at 300 x g for 5 min.
 7. Cells are resuspended in 1 ml DMEM and seeded into new flasks.
 8. Cells are grown in DMEM supplemented with 10% FBS. Cells are trypsinized with 2.5 ml Trypsin-EDTA (T25, 3-5 min) and centrifuged at 300 x g for 5 min.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating No coating

Shipping Conditions Cells are shipped in DMEM supplemented with 10% FBS. Cells are stored at -78°C.

Storage Conditions Cells are stored in DMEM supplemented with 10% FBS. Cells are stored at -150°C for 196 days.

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Sterility

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THESE RESEARCHERS HAVE CONDUCTED RESEARCH ON THE EFFECTS OF THE COVID-19 PANDEMIC ON THE MENTAL HEALTH OF CHILDREN AND YOUNG PEOPLE. THEIR RESEARCH HAS SHOWN THAT THE PANDEMIC HAS HAD A NEGATIVE IMPACT ON THE MENTAL HEALTH OF CHILDREN AND YOUNG PEOPLE, WITH INCREASED RATES OF ANXIETY, DEPRESSION, AND OTHER MENTAL HEALTH PROBLEMS. THE RESEARCHERS HAVE ALSO IDENTIFIED SEVERAL FACTORS THAT CONTRIBUTE TO THESE PROBLEMS, INCLUDING ISOLATION, LOSS OF SUPPORT, AND UNCERTAINTY ABOUT THE FUTURE.