

KPL-4 | 305578

Cell Line

Description	KPL-4 is a human cell line derived from a patient with a primary tumor of the breast. It is a highly proliferative, anchorage-dependent cell line that grows in the presence of insulin, transferrin, and selenium (ITS). KPL-4 is a highly tumorigenic cell line that can be used for the study of breast cancer biology and for the development of new therapies. KPL-4 is a highly tumorigenic cell line that can be used for the study of breast cancer biology and for the development of new therapies. (AMDC) KPL-4 is a highly tumorigenic cell line that can be used for the study of breast cancer biology and for the development of new therapies.
Organism	Human
Tissue	Breast
Disease	Breast cancer
Metastatic site	Metastatic site
Synonyms	KPL4

Cell Line Properties

Age	52 years
Gender	Female
Ethnicity	White
Morphology	Epithelial
Growth properties	Highly proliferative

Cell Line Characteristics

Citation	KPL-4 (Cytion 305578)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_5310

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Cell line: KPL-4

MSI-status	(MSS)
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Cell line: KPL-4

Culture Medium	DMEM, w: 4.5 g/L , w: 4 mM L- , w: 3.7 g/L NaHCO ₃ , w: 1.0 mM (Cytion 820300a)
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Supplements	10% FBS
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Dissociation Reagent	
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Subculturing	Cells are grown in T25 flasks in DMEM supplemented with 10% FBS. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks. The medium is changed every 3-5 days.
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Fluid renewal	
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Freeze medium	Cells are frozen in DMEM supplemented with 10% FBS and 10% DMSO. The medium is changed every 3-5 days.
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Thawing and Culturing Cells	1. Thaw cells quickly in a water bath at 37°C. 2. Dilute cells in DMEM supplemented with 10% FBS. 3. Seed cells into T25 flasks. 4. Allow cells to attach for 24 hours. 5. Change medium to DMEM supplemented with 10% FBS. 6. Monitor cell growth and confluency. 7. Subculture cells when they reach 80-90% confluency. 8. Freeze cells for long-term storage.
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Incubation Atmosphere 37°C, 5%_{CO2}, **humidified**

Flask Coating **yes**

Freezing Procedure **cells are cryoprotected with 10% FCS in DMEM and frozen in liquid nitrogen. After thawing, cells are washed with PBS and seeded into fresh medium.** **-78°C**

Shipping Conditions **cells are shipped in liquid nitrogen. After thawing, cells are washed with PBS and seeded into fresh medium.** **-78°C**

Storage Conditions **cells are stored in liquid nitrogen. After thawing, cells are washed with PBS and seeded into fresh medium.** **-150 to 196 °C**

cells are cryoprotected with 10% FCS in DMEM and frozen in liquid nitrogen.

Sterility **cells are tested for mycoplasma contamination by PCR. No mycoplasma contamination was detected.**

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