

PC-12 | 500311

PC-12

Description
PC-12 is a cell line derived from a patient with acute myeloid leukemia (AML) who was treated with chemotherapy. The cell line is characterized by its ability to grow in suspension and its sensitivity to various chemotherapeutic agents. PC-12 is a derivative of the PC12 cell line, which was established from a pheochromocytoma of a 15-year-old child. PC12 cells are known for their ability to differentiate into various cell types, including neurons, and are commonly used in neurobiology research. PC-12 cells are derived from a patient with AML and are characterized by their ability to grow in suspension. PC-12 cells are highly sensitive to various chemotherapeutic agents, including doxorubicin, etoposide, and cytarabine. PC-12 cells are used in research to study the mechanisms of drug resistance in AML and to evaluate the efficacy of novel therapeutic strategies.

Organism: Homo sapiens

Tissue: Bone marrow

Disease: Acute Myeloid Leukemia (AML)

Synonyms: PC 12, PC12

PC-12

Age: 15 years

Gender: Male

Ethnicity: Caucasian

Morphology: Epithelial

Growth properties: Adherent, suspension

PC-12

Citation: PC-12 (ATCC CCL-219) | Cytion 500311

Biosafety level: 1

NCBI_TaxID: 10116

CellosaurusAccession: CVCL_S979

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed medium.
2. Seed the cells into a pre-warmed flask containing 15 mL of medium. Incubate at 37°C with 5% CO₂.
3. When the cells reach confluence, passage them into a new flask. Use a trypsin solution to detach the cells.
4. Wash the cells with PBS. Resuspend in 1 mL of medium. Seed into a new flask containing 15 mL of medium.
5. Incubate at 37°C with 5% CO₂.
6. When the cells reach confluence, passage them into a new flask. Use a trypsin solution to detach the cells.
7. Wash the cells with PBS. Resuspend in 1 mL of medium. Seed into a new flask containing 15 mL of medium.
8. Incubate at 37°C with 5% CO₂.

Incubation Atmosphere 37°C, 5% CO₂, humidified air

Flask Coating None

Freezing Procedure Harvest cells into a pre-cooled tube. Add 1 mL of freezing medium. Freeze at -80°C.

Shipping Conditions Store at -80°C. Ship on dry ice.

Storage Conditions Store at -150°C for up to 196 weeks.

Genotype / HLA

Sterility The cells are free of mycoplasmas and other contaminants. PCR screening is performed.