

Product sheet

KATO-III | 300381

General Information

Description KATO-III is a human cell line derived from a patient with acute myeloid leukemia (AML). It is characterized by a high degree of tumorigenicity and is used for studying the biology of AML and for testing new drugs. KATO-III cells are highly proliferative and can be grown in suspension culture. They are highly sensitive to chemotherapy and are used as a model system for studying drug resistance in AML.

Organism Human

Tissue Bone Marrow

Disease Acute Myeloid Leukemia (AML)

Metastatic site Liver, Lung, Bone

Synonyms Kato III, Kato-III, KATO III, KATOIII, Katolll, KATO 3, JTC-28, KATO-III-28

Cell Culture

Age 57 years

Gender Male

Ethnicity Caucasian

Morphology Clonal

Growth properties Adherent

Characterization

Citation KATO-III (ATCC CCL-229) | Cytion 300381

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_0371

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C. Do not allow the vial to touch the bottom of the water bath. Remove the vial from the water bath and transfer the cells to a pre-warmed tube.
2. Add 10 ml of pre-warmed medium to the tube. Gently mix the cells by pipetting up and down. Incubate the cells at 37°C for 15 minutes.
3. Centrifuge the cells at 300 x g for 3 minutes. Remove the supernatant and resuspend the cells in 10 ml of pre-warmed medium.
4. Seed the cells into a 15 cm² flask containing 8 ml of pre-warmed medium. Incubate the cells at 37°C for 24 hours.
5. Harvest the cells by centrifugation at 300 x g for 3 minutes. Resuspend the cells in 10 ml of pre-warmed medium.
6. Seed the cells into a 10 cm² flask containing 10 ml of pre-warmed medium. Incubate the cells at 37°C for 24 hours.
7. Harvest the cells by centrifugation at 300 x g for 3 minutes. Resuspend the cells in 10 ml of pre-warmed medium.
8. Seed the cells into a 15 cm² flask containing 8 ml of pre-warmed medium. Incubate the cells at 37°C for 24 hours.

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

Flask Coating Cell culture medium

Freezing Procedure Seed cells into a 15 cm² flask containing 8 ml of pre-warmed medium. Incubate the cells at 37°C for 24 hours.

Shipping Conditions Store the cells at -78°C.

Storage Conditions Store the cells at -150°C for 196 days.

Genotype / Phenotype / HLA

Sterility The cells are free of mycoplasma contamination. PCR analysis of the cells shows no mycoplasma contamination.

██████ KATO-III | 300381

██████ HLA

A*: '02:01:01, '02:07:01

B*: '15:01:01, '46:01:01

C*: '01:02:01, '03:03:01

DRB1*: 08:03:02, 15:01:01G

DQA1*: 01:02:01, 01:03:01

DQB1*: 06:01:01, 06:02:01

DPB1*: '02:01:02, '02:02:01

E: 01:03:02