

Product sheet

NCI-H2452 | 300391

General Information

Description	NCI-H2452 is a human myeloid leukemia cell line. It is a derivative of the HL-60 cell line, which was established from a patient with acute myeloid leukemia. NCI-H2452 cells are characterized by their ability to differentiate into various myeloid lineages, including granulocytes and monocytes. They are commonly used in studies related to leukemia and myeloid differentiation.
Organism	Human
Tissue	Leukemia
Disease	Acute Myeloid Leukemia (AML)
Synonyms	NCI-H2452, H-2452, NCIH2452

Characteristics

Age	
Gender	
Ethnicity	
Morphology	
Growth properties	

Identification

Citation	NCI-H2452 (Cytion 300391)
NCBI_TaxID	9606
CellSaurusAccession	CVCL_1553

Additional Information

References

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Culture Medium RPMI 1640, w: 2.0 mM β -mercaptoethanol, w: 2.0 g/L NaHCO₃ (Cytion 820700a)

Supplements 10% FBS

Dissociation Reagent Trypsin

Subculturing Seed cells into fresh medium in T25, T75 or 150 cm² flasks. For passage 3, use 1:3 split ratio. For passage 4, use 1:4 split ratio.

Freeze medium RPMI 1640, w: 2.0 mM β -mercaptoethanol, w: 2.0 g/L NaHCO₃ (Cytion 820700a) + 10% FBS + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw cells quickly in a 37°C water bath.
 2. Add 10 ml of RPMI 1640 + 10% FBS to the flask.
 3. Incubate cells in a 37°C incubator with 5% CO₂.
 4. After 24 hours, check cell attachment. If cells are not attached, add 10% FBS.
 5. After 48 hours, check cell attachment. If cells are not attached, add 10% FBS.
 6. After 72 hours, check cell attachment. If cells are not attached, add 10% FBS.
 7. After 96 hours, check cell attachment. If cells are not attached, add 10% FBS.
 8. After 120 hours, check cell attachment. If cells are not attached, add 10% FBS.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating Cell culture medium

Freezing Procedure Seed cells into fresh medium in T25, T75 or 150 cm² flasks. For passage 3, use 1:3 split ratio. For passage 4, use 1:4 split ratio.

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Shipping Conditions

Store at -78°C

Storage Conditions

Store at -150 to 196°C

HLA

Sterility

PCR
Sterility