

Product sheet

HL-60 | 300209

HL-60

Description

HL-60, a human myeloid leukemia cell line, is derived from a patient with acute myeloid leukemia (AML). It is characterized by its ability to differentiate into various myeloid lineages, including granulocytes and monocytes. HL-60 cells are widely used in research to study the biology of AML and to evaluate potential therapeutic strategies. The cell line is maintained in suspension culture and is known for its high growth rate and stability.

Organism Human

Tissue Bone marrow

Disease Acute myeloid leukemia

Applications Cell culture, drug screening, differentiation studies

Synonyms HL 60, HL.60, HL60

HL-60

Age 36 years

Gender Male

Ethnicity Caucasian

Morphology Granulocytic

Cell type Myeloid

Growth properties Suspension culture

HL-60

Citation HL-60 (ATCC CCL-240) Cytion 300209

HL-60 | 300209

Thawing and Culturing Cells

1. Thaw the cells 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 10-15 mL of pre-warmed medium. Incubate at 37°C with 5% CO₂.
3. Monitor the cells for attachment and growth. Change the medium after 24-48 hours.
4. Once the cells are established, passage them into a new flask at 70-80% confluency.
5. Use a pipette to transfer 15 µL of cells into 8 µL of medium.
6. Seed the cells into a flask containing 300 x g of cells. Incubate at 37°C with 5% CO₂.
7. Harvest the cells after 10-15 minutes. Wash the cells with PBS.
8. Resuspend the cells in a suitable medium for further use.

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

Flask Coating No coating

Freezing Procedure Harvest cells at 70-80% confluency. Resuspend in freezing medium. Store at -80°C.

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

Storage Conditions Store at -150°C for 196 days. Thaw at 37°C.

HLA

Sterility The cells are free of mycoplasmas and PCR detectable. The cells are free of endotoxins.

HL-60 | 300209

HLA

- A*: 01:01:01
- B*: '57:01:01
- C*: 06:02:01
- DRB1*: 07:01:01
- DQA1*: 02:01:01
- DQB1*: 03:03:02
- DPB1*: 04:01:01, 13:01:01
- E: '01:01:01, '01:09