

143B | 305232

143B

Description 143B is a human myeloid leukemia cell line derived from a patient with acute myeloid leukemia (AML). It is characterized by the presence of the t(8;21) translocation, which results in the fusion of the FMS and MLL genes, leading to the production of the FMS/MLL fusion protein. This protein is a transcription factor that plays a role in the regulation of hematopoietic development. 143B cells are typically grown in suspension in the presence of growth factors such as IL-3, IL-6, and GM-CSF.

Organism Human

Tissue Bone marrow, peripheral blood

Disease Acute myeloid leukemia

Synonyms 143b, 143 B, 143B TK-, 143B.TK-, 143BTK-, 143TK-, HOS-143B, HOS-143b, GM05887, GM05887A

143B

Age 13 years

Gender Male

Ethnicity Chinese

Growth properties Suspension

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Citation 143B (ATCC CCL-2270) Cytion 305232

Biosafety level 1

NCBI_TaxID 9606

CellosaurusAccession CVCL_2270

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Culture Medium EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO₃, w: EBSS (Cytion 820100a)

Supplements 10% FBS 1% NEAA

Dissociation Reagent

Subculturing Cells are grown in 25 cm² flasks in EMEM medium supplemented with 10% FBS and 1% NEAA. When cells reach confluence, they are trypsinized and seeded into new flasks. The medium is changed every 3-5 days.

Seeding density 2×10^4 cells/cm²

Freeze medium Cells are frozen in EMEM medium supplemented with 10% FBS and 10% DMSO. The medium is changed every 3-5 days.

Thawing and Culturing Cells

1. Cells are thawed in a water bath at 37°C and seeded into a 25 cm² flask.
2. Cells are grown in EMEM medium supplemented with 10% FBS and 1% NEAA.
3. Cells are trypsinized and seeded into new flasks.
4. Cells are grown in EMEM medium supplemented with 10% FBS and 1% NEAA.
5. Cells are trypsinized and seeded into new flasks.
6. Cells are grown in EMEM medium supplemented with 10% FBS and 1% NEAA.
7. Cells are trypsinized and seeded into new flasks.
8. Cells are grown in EMEM medium supplemented with 10% FBS and 1% NEAA.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating None

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Freezing
Procedure

1. The sample should be frozen immediately after the last PCR cycle. 2. The sample should be frozen in a pre-cooled container at -78°C.

Shipping
Conditions

1. The sample should be shipped in a pre-cooled container at -78°C.

Storage
Conditions

1. The sample should be stored at -150 to -196 °C in a pre-cooled container.

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Sterility

1. The sample should be stored in a pre-cooled container at -78°C. 2. The sample should be stored in a pre-cooled container at -78°C. 3. The sample should be stored in a pre-cooled container at -78°C.