Product sheet





General information

Description C3H/10T1/2, Clone 8 is very sensitive to post-confluence inhibition of cell division and does not produce tumors

in syngeneic mice. These cells have not been reported to have a history of spontaneous transformation, nor do they contain overt endogenous transforming murine leukemia, sarcoma viruses or ectromelia virus (mousepox). In addition, they are highly susceptible to transformation by chemical agents. Notably, the batch of serum used for growth and transformation assays may affect both the morphology of this line and the results obtained. The

depositor recommends that the line be used between the 5th and 15th passages only.

Organism Mouse

Tissue Embryo

Synonyms C3H/10T1/2 Clone 8, C3H/10T1/2-clone8, C3H/10T1/2 CL8, C3H10T1/2 clone8, C3H10T1/2 clone8,

10T1/2, C3H10T1-2, C3H10T1/2, C3H-10T1/2, C3H 10T1/2, C3H/10T1/2

Characteristics

Age Embryo

Morphology Fibroblast

Growth Adherent properties

Identifiers / Biosafety / Citation

Citation C3H/10T1/2, Clone 8 (Cytion catalog number 305164)

Biosafety level

Expression / Mutation

Tumorigenic No

Handling

CultureBME, w: 4.5 g/L Glucose, w: 4 mM L-Glutamine, w: 1.5 g/L NaHCO3, w: 1.0 mM Sodium pyruvate (We do not supply BME; please consider other suppliers. Please let us know if you need further assistance)

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C3H/10T1/2 Cells | 305164

| Medium supplements | Supplement the medium with 10% FBS |
|-----------------------|---|
| Passaging solution | Accutase |
| Subculturing | Remove the old medium from the adherent cells and wash them with PBS that lacks calcium and magnesium. For T25 flasks, use 3-5 ml of PBS, and for T75 flasks, use 5-10 ml. Then, cover the cells completely with Accutase, using 1-2 ml for T25 flasks and 2.5 ml for T75 flasks. Let the cells incubate at room temperature for 8-10 minutes to detach them. After incubation, gently mix the cells with 10 ml of medium to resuspend them, then centrifuge at 300xg for 3 minutes. Discard the supernatant, resuspend the cells in fresh medium, and transfer them into new flasks that already contain fresh medium. |
| Split ratio | 1:2 to 1:4 |
| Fluid renewal | 2 to 3 times per week |
| Freeze medium | CM-1 (Cytion catalog number 800100) or CM-ACF (Cytion catalog number 806100) |

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C3H/10T1/2 Cells | 305164

Handling of cryopreserved cultures

- 1. Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
- 2. Upon receipt, either store the cryovial immediately at temperatures below -150°C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required.
- 3. For immediate culturing, swiftly thaw the vial by immersing it in a 37°C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains.
- 4. Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
- 5. Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently.
- 6. Centrifuge the mixture at 300 x g for 3 minutes to separate the cells and carefully discard the supernatant containing residual freezing medium. Optionally, skip centrifugation but remove any remaining freezing medium after 24 hours.
- 7. Gently resuspend the cell pellet in 10 ml of fresh culture medium. For adherent cells, divide the suspension between two T25 culture flasks; for suspension cultures, transfer all the medium into one T25 flask to promote effective cell interaction and growth.
- 8. Adhere to established subculture protocols for continued growth and maintenance of the cell line, ensuring reliable experimental outcomes.

Quality control / Genetic profile / HLA

Sterility

Mycoplasma contamination is excluded using both PCR-based assays and luminescence-based mycoplasma detection methods.

To ensure there is no bacterial, fungal, or yeast contamination, cell cultures are subjected to daily visual inspections.