RAW264.7

CSI302Mu11

Instruction manual

FOR RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

1st Edition (Revised in May, 2024)

[DESCRIPTION]

RAW 264.7 is a macrophage cell line that was established from a tumor in a male mouse induced with the Abelson murine leukemia virus.

Synonyms: RAW264; RAW2647; RAW264.7; RAW-264.7; Raw 264.7; Raw264.7

Organism: Mus musculus (Mouse)

Tissue Source: Ascites

Disease: Abelson murine leukemia virus-induced tumor

Cell Type: Macrophage

Growth Properties: Adherent

[PROPERTIES]

Cell activity: >85% (Viability by Trypan Blue Exclusion).

Formulation: Frozen 1 mL or T25 flask.

Biosafety: Negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast and fungi.

Applications: For research use only. It is not approved for human or animal use, or for application in clinical diagnostic procedures.

Size: >5×10^5cell/vial

[STORAGE]

Upon receiving, check all containers for leakage or breakage. directly and immediately transfer the cells from dry ice to liquid nitrogen and keep the cells in liquid nitrogen until they are needed for experiments.

Form & Buffer: Supplied as solution form in frozen stock solution, containing 50% base medium +40%FBS+10%DMSO.

Storage conditions: liquid nitrogen

[USAGE]

Culture conditions:

Complete growth medium：DMEM+10%FBS+1%Penicillin-Streptomycin Solution

Temperature: 37˚C

Condition: 95% air, 5% carbon dioxide

Cell recovery:

1. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination,

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keep the cap out of the water. The thawing time is about 2 minutes.

2. Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by spraying with 75% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.
3. Transfer the vial contents to a centrifuge tube containing 9.0mL complete culture medium. and spin at approximately 1000 rpm for 5 minutes.
4. Resuspend cell pellet with the recommended complete medium. and dispense into a T25 culture flask.
5. Incubate the culture at 37°C, 5% CO_2 in a suitable incubator.

Cell passage:

1. The cells are not recommended for digestion with Trypsin, which stimulate cell differentiation and can be blown to suspend or scraped.
2. Remove the cells from the bottom of the flask with a cell scraper; Alternatively, gently blow the cells with a pipette to suspend them. Collect the blown cells and subculture them in the appropriate ratio. A small number of unblown cells are discarded directly.
3. Subcultivation Ratio: A subcultivation ratio of 1:2 to 1:3 is recommended; It is recommended to passage cells every 1-2 days, and cells are easy to differentiate without passages for more than 3 days.
4. The presence of a small number of differentiated cells during culture is a normal phenomenon.

[Shipping]

Dry ice.

[IMPORTANTNOTE]

1. This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.
2. To insure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70°C. Storage at -70°C will result in loss of viability.
3. After cell recovery, please take regular microscopic examination and photos to record the growth status of cells.
4. Read the instructions carefully, and keep and operate in strict accordance with the instructions. If you observe abnormalities or have questions about cell culture operations, please contact us in time.
5. Passage the cells at least every three days, otherwise the cells will differentiate.
6. When cultured, a small number of differentiated cells were present, which is a normal phenomenon.

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[Figure]

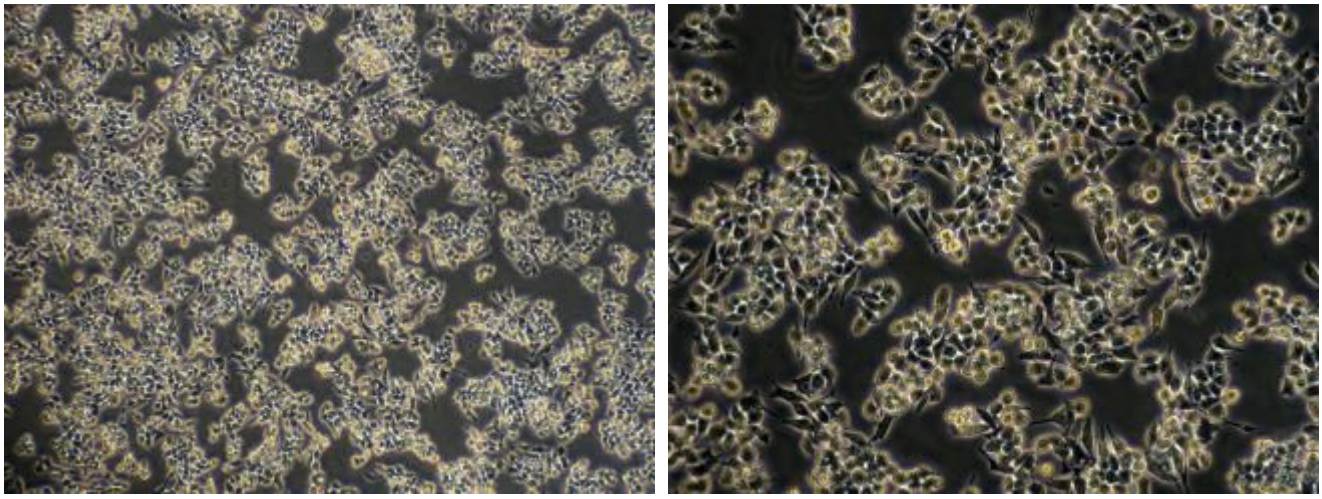

Figure 1 Morphology of RAW264.7 (Optical microscope，100x, 200x)

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