

RAW 264.7 | 400319

RAW 264.7

Description RAW 264.7 is a murine macrophage cell line derived from the RAW 264 strain of mice. It is a clonal cell line that is highly proliferative and capable of phagocytosis. RAW 264.7 cells are commonly used in immunology research to study macrophage activation, cytokine production, and phagocytosis. The cell line is maintained in culture in the presence of fetal bovine serum (FBS) and is typically grown in tissue culture flasks. RAW 264.7 cells are highly sensitive to oxidative stress and are known to produce reactive oxygen species (ROS) in response to various stimuli. The cell line is also known to be highly responsive to lipopolysaccharide (LPS) and other pro-inflammatory stimuli. RAW 264.7 cells are a valuable tool for studying the innate immune response and the role of macrophages in disease pathogenesis.

Organism *Mus musculus*

Tissue Bone marrow

Disease None

Synonyms RAW264, RAW2647, RAW264.7, RAW-264.7, Raw 264.7, Raw264.7

Characteristics

Breed/Subspecies BALB/c

Age 1-2 weeks

Gender Male

Cell type Macrophage

Growth properties Adherent

References

Citation RAW 264.7 (ATCC CCL-103) | Cytion 400319

Biosafety level 2

NCBI\_TaxID 10090

CellosaurusAccession CVCL\_0493



RAW 264.7 | 400319

**Thawing and Culturing Cells**

1. Thaw the cells rapidly in a water bath at 37°C. Transfer the cells to a centrifuge tube and centrifuge at 300 x g for 5 minutes. Remove the supernatant and resuspend the cells in DMEM supplemented with 10% FBS.
2. Seed the cells into a T25 flask at a density of 1.5 x 10<sup>6</sup> cells per flask. Incubate at 37°C with 5% CO<sub>2</sub> until the cells reach 70-80% confluency.
3. Harvest the cells by trypsinization and centrifugation at 300 x g for 5 minutes. Wash the cells with PBS and resuspend in DMEM supplemented with 10% FBS.
4. Seed the cells into a T25 flask at a density of 1.5 x 10<sup>6</sup> cells per flask. Incubate at 37°C with 5% CO<sub>2</sub> until the cells reach 70-80% confluency.
5. Harvest the cells by trypsinization and centrifugation at 300 x g for 5 minutes. Wash the cells with PBS and resuspend in DMEM supplemented with 10% FBS.
6. Seed the cells into a T25 flask at a density of 1.5 x 10<sup>6</sup> cells per flask. Incubate at 37°C with 5% CO<sub>2</sub> until the cells reach 70-80% confluency.
7. Harvest the cells by trypsinization and centrifugation at 300 x g for 5 minutes. Wash the cells with PBS and resuspend in DMEM supplemented with 10% FBS.
8. Seed the cells into a T25 flask at a density of 1.5 x 10<sup>6</sup> cells per flask. Incubate at 37°C with 5% CO<sub>2</sub> until the cells reach 70-80% confluency.

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>, humidified

**Flask Coating** None

**Freezing Procedure** Harvest cells by trypsinization and centrifugation at 300 x g for 5 minutes. Wash with PBS and resuspend in DMEM supplemented with 10% FBS. Seed into a T25 flask at 1.5 x 10<sup>6</sup> cells per flask. Incubate at 37°C with 5% CO<sub>2</sub> until 70-80% confluency.

**Shipping Conditions** Cells should be shipped at 4°C in DMEM supplemented with 10% FBS. Incubate at 37°C with 5% CO<sub>2</sub> until 70-80% confluency.

**Storage Conditions** Cells should be stored at -150°C in DMEM supplemented with 10% FBS. Incubate at 37°C with 5% CO<sub>2</sub> until 70-80% confluency.

RAW 264.7 / RAW 264.7 / HLA

**Sterility** Cells are provided as a frozen cell suspension in DMEM supplemented with 10% FBS. PCR screening for mycoplasma contamination is performed on all cell batches. Cells are free of mycoplasma contamination.

██████████ RAW 264.7 | 400319

██████████ STR

**Amelogenin:** x,y

**M\_18-3:** 18

**M\_4-2:** 22,3, 23,3

**M\_6-7:** 12

**M\_3-2:** 14

**M\_19-2:** 12,14

**M\_7-1:** 25 ██████████

**M\_1-1:** 15,16

**M\_8-1:** 13

**M\_2-1:** 16

**M\_15-3:** 22 ██████

**M\_6-4:** 18

**M\_11-2:** 17

**M\_1-2:** 17

**M\_17-2:** 14,16

**M\_12-1:** 16,17

**M\_5-5:** 14

**M\_X-1:** 25

**M\_13-1:** 16 ██████████

**Human D4/D8:** -