

RM-1 | 305168

RM-1

Description	RM-1 is a cell line derived from the C57BL/6 mouse. It is a fibroblast cell line that is used for various research purposes. RM-1 cells are characterized by their high proliferation rate and their ability to differentiate into various cell types. RM-1 cells are also used for the production of recombinant proteins and for the study of gene expression and regulation.
Organism	Mouse
Tissue	Fibroblast
Disease	Not applicable
Synonyms	RM1

Characteristics

Breed/Subspecies	C57BL/6
Age	17 weeks
Gender	Male
Morphology	Fibroblast
Growth properties	High proliferation rate

Documentation

Citation	RM-1 (Cytion 305168)
Biosafety level	1
NCBI_TaxID	10090
CellosaurusAccession	CVCL_B459
GMO Status	GMO-S1: RM-1 (Cytion 305168) is a cell line derived from the C57BL/6 mouse. It is a fibroblast cell line that is used for various research purposes. RM-1 cells are characterized by their high proliferation rate and their ability to differentiate into various cell types. RM-1 cells are also used for the production of recombinant proteins and for the study of gene expression and regulation.

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Cell Line: RM-1

Cell Type: Fibroblast

Culture Medium	DMEM, w: 4.5 g/L D-glucose, w: 4 mM L-glutamine, w: 3.7 g/L NaHCO ₃ , w: 1.0 mM sodium pyruvate (Cytion 820300a)
Supplements	10% FBS
Dissociation Reagent	Trypsin
Subculturing	Cells are grown in 25 cm ² flasks in DMEM supplemented with 10% FBS. When cells reach 80-90% confluency, they are trypsinized and seeded into new flasks at a split ratio of 1:2 to 1:4. Media is changed every 2-3 days.
Split ratio	1:2 to 1:4
Fluid renewal	2-3 times per week
Freeze medium	DMEM supplemented with 10% FBS and 10% DMSO

Thawing and Culturing Cells

1. Thaw cells rapidly in a water bath at 37°C.
2. Dilute cells into DMEM supplemented with 10% FBS.
3. Seed cells into a T25 flask.
4. Allow cells to attach for 24 hours.
5. Change media to DMEM supplemented with 10% FBS.
6. Monitor cell growth and confluency.
7. Split cells when they reach 80-90% confluency.
8. Repeat the process for subsequent passages.

