

NRK | 305195

Description

NRK (Rattus norvegicus) is a rodent species commonly used in laboratory research. It is a mammal belonging to the order Rodentia and the family Muridae. NRK is a common model organism for studying various biological processes, including genetics, immunology, and disease models. It is characterized by its brown fur, long tail, and omnivorous diet. NRK is typically housed in a controlled environment and bred in large numbers for research purposes.

Organism Rodentia

Tissue Rodentia

Synonyms Rodentia Muridae

Breed/Subspecies Rodentia-Muridae

Age Rodentia

Morphology Rodentia

Growth properties Rodentia

Citation NRK (Rodentia Muridae 305195)

Biosafety level 1

NCBI_TaxID 10116

CellosaurusAccession CVCL_3758

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Culture Medium DMEM 4.5 g/l, Glucose 4 g/l, L-Glutamine 3.7 g/l, NaHCO₃ 1.0 g/l, Penicillin (100 IU/ml), Streptomycin (82 IU/ml)

Supplements 10% FBS

Dissociation Reagent Trypsin

Subculturing Cells are harvested by trypsinization and resuspended in PBS. Cells are then seeded into new flasks.

Fluid renewal 2-3 times per week

Freeze medium Cells are resuspended in DMEM (10% FBS) + 10% DMSO and frozen in liquid nitrogen.

- Thawing and Culturing Cells**
1. Thaw cells in a 37°C water bath.
 2. Dilute cells into DMEM (10% FBS) and seed into a flask.
 3. Incubate cells at 37°C in a humidified CO₂ incubator.
 4. Monitor cell growth and reach 70% confluency.
 5. Harvest cells by trypsinization and resuspend in DMEM (10% FBS).
 6. Seed cells into a 300 cm² flask at 3 × 10⁶ cells.
 7. Incubate cells at 37°C in a humidified CO₂ incubator.
 8. Harvest cells by trypsinization and resuspend in DMEM (10% FBS).

Incubation Atmosphere 37°C, 5% CO₂

Flask Coating Cells are seeded into uncoated flasks.

