

Product sheet

4T1-Luc | 305663

4T1-Luc

Description 4T1-Luc (BALB/c) mouse model of breast cancer. The 4T1-Luc mouse is a syngeneic model of breast cancer, derived from the 4T1 mammary carcinoma cell line. The 4T1-Luc mouse is characterized by the presence of a luciferase gene (Luc) under the control of the 4T1 promoter, which allows for the detection of tumor growth and metastasis using bioluminescence imaging (BLI).

Organism Mouse

Tissue Mammary gland

Disease Breast cancer

4T1-Luc

Breed/Subspecies BALB/cfC3H

Gender Male

Morphology Mice

Growth properties 4T1-Luc

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Citation 4T1-Luc (BALB/c) mouse model of breast cancer (Cytion 305663)

Biosafety level 1

NCBI_TaxID 10090

CellosaurusAccession CVCL_J239

4T1-Luc

Antigen expression 4T1-Luc

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Tumorigenic BALB/c

MSI-status "MSI-H"

Characteristics

Culture Medium RPMI 1640, w: 2.0 mM β -mercaptoethanol, w: 2.0 mM/1000 NaHCO₃ (Cytion 820700a)

Supplements FBS 10%

Dissociation Reagent

Subculturing PBS T25

Seeding density 1 $\times 10^4$ cells/cm²

Fluid renewal 2 $\times 10^3$ cells/cm²

Freeze medium + 10% DMSO

Thawing and Culturing Cells

1. Thaw cryovial in 37°C water bath.
2. Centrifuge cryovial at 150 x g for 5 min.
3. Remove supernatant and wash cells with PBS.
4. Resuspend cells in 1 mL PBS and count cells.
5. Seed cells into T25 flask at 15 $\times 10^3$ cells/cm².
6. Add 200 μ g/ml penicillin, 5 μ g/ml streptomycin, and 5 μ g/ml nystatin.
7. Incubate cells in 5% CO₂ at 37°C.

