

LN229 | 305043

General information

Description	LN229 is a human glioblastoma cell line derived from a 60-year-old male patient with a glioblastoma multiforme (GBM). The cell line is characterized by its high growth rate and its ability to form spheroids in vitro. It is a p53-deficient (TP53), C-CCT (Pro) C-CTT (Leu) cell line. LN229 cells are highly tumorigenic and are used as a model for studying glioblastoma biology and drug response. The cell line is sensitive to Fas-mediated apoptosis.
Organism	Human
Tissue	Brain, Glioblastoma multiforme (GBM), Glioblastoma
Disease	Glioblastoma
Synonyms	LN 229, LN229, LNT-229

Cell characteristics

Age	60 years
Gender	Male
Ethnicity	Unknown
Morphology	Epithelial
Growth properties	Adherent

Cell culture conditions

Citation	LN229 (Cytion 305043)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0393

Cell culture media and supplements

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Overview

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 NaCl (Cytion 820300a)
Supplements	10% FBS
Dissociation Reagent	
Doubling time	31
Subculturing	Cells are grown in DMEM supplemented with 10% FBS. Cells are passaged using Trypsin-EDTA, 3-5 min at 37°C. Cells are then resuspended in DMEM supplemented with 10% FBS.
Fluid renewal	2-3 times per week
Freeze medium	DMEM supplemented with 10% FBS + 10% DMSO
Thawing and Culturing Cells	- Cells are thawed in a water bath at 37°C. - Cells are washed with PBS. - Cells are resuspended in DMEM supplemented with 10% FBS. - Cells are seeded into a T25 flask. - Cells are grown in DMEM supplemented with 10% FBS. - Cells are passaged using Trypsin-EDTA. - Cells are resuspended in DMEM supplemented with 10% FBS. - Cells are seeded into a T25 flask.
Incubation Atmosphere	37°C, 5% CO_2

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Flask Coating 100 µm

Freezing
Procedure

1. 100 µl of the cell suspension is added to 1 ml of freezing medium and mixed thoroughly. 2. The mixture is then added to a pre-cooled cryovial and sealed. 3. The cryovial is then placed in a freezing container and frozen at -78°C.

Shipping
Conditions

1. The cryovial is placed in a shipping container and sealed. 2. The shipping container is then placed in a dry ice container and shipped at -78°C.

Storage
Conditions

1. The cryovial is stored at -150 °C for up to 196 weeks. 2. The cryovial is then thawed and the cells are resuspended in 1 ml of medium.

100 µl of the cell suspension is added to 1 ml of freezing medium and mixed thoroughly.

Sterility

1. The cryovial is sterilized by autoclaving at 121°C for 15 minutes. 2. The cryovial is then sealed and stored at -150 °C. 3. The cryovial is then thawed and the cells are resuspended in 1 ml of medium.