Genomeditech (Shanghai) Co.,Ltd.
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Product Sheet

Luciferase NCI-H929 Cell Line

Catalog number: GM-C25287

Version 3.3.1.250313

Description	Luciferase NCI-H929 Cell Line is a clonal stable NCI-H929 cell line that constitutively expresses the Luciferase gene, constructed using lentiviral technology.
Quantity	2E6 Cells per vial,1 mL
Product Format	3 vials of frozen cells
Shipping	Shipped on dry ice
Storage Conditions	Liquid nitrogen immediately upon receipt
Target	/
Gene ID/Uniprot ID	/
Host Cell	NCI-H929
Recovery Medium	RPMI 1640+10% FBS+1% P.S+0.05 mM β-Me
Growth medium	RPMI 1640+10% FBS+1% P.S+0.05 mM β-Me+0.25 μg/mL Puromycin
Note	None
Freezing Medium	90% FBS+10% DMSO
Growth properties	Suspension
Growth Conditions	37°C, 5% CO_2
Mycoplasma Testing	The cell line has been screened to confirm the absence of Mycoplasma species.
Safety considerations	Biosafety Level 2
Note	It is recommended to expand the cell culture and store a minimum of 10 vials at an early passage for potential future use.

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Materials

Reagent	Manufacturer/Catalogue No.
RPMI 1640(ATCC)	ATCC/30-2001
Fetal Bovine Serum	Cegrogen biotech/A0500-3010
Pen/Strep	Thermo/15140-122
Puromycin	Genomeditech/GM-040401
ONE-Glo™ Luciferase Assay System	Promega/E6120

Figures

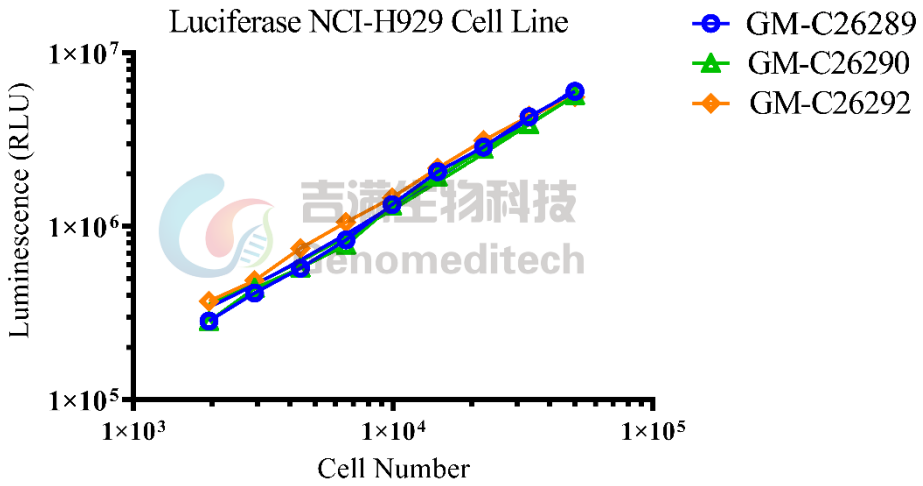

Figure 1 | Correlation between the number of cells and bioluminescence values. Serial dilutions of Luciferase NCI-H929 Cell Line (Cat. GM-C25287) (96-well format). The firefly luciferase activity was measured using the ONE-Glo™ Luciferase Assay System Promega E6120 (Promega/E6120).

Cell Recovery

Recovery Medium: RPMI 1640+10% FBS+1% P.S+0.05 mM β-Me

To insure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70°C. Storage at -70°C will result in loss of viability.

a) Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 - 3 minutes).

b) Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.

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c) Transfer the vial contents to a centrifuge tube containing 5.0 mL complete culture medium and spin at approximately 176 x g for 5 minutes. Discard supernatant.

d) Resuspend cell pellet with the recommended complete medium. And dispense the suspension into an appropriate culture flask and initially place the flask in an upright position after thawing.

e) Incubate the culture at 37°C in a suitable incubator. A 5% CO_2 in air atmosphere is recommended if using the medium described on this product sheet.

Cell Freezing

Freezing Medium: 90% FBS+10% DMSO

a) Centrifuge at 176 x g for 3 minutes to collect cells.

b) Resuspend the cells in pre-cooled freezing medium and adjust the cell density to 5E6 cells/mL.

c) Aliquot 1 mL into each vial.

d) Place the vial in a controlled-rate freezing container and store at -80°C for at least 1 day, then transfer to liquid nitrogen as soon as possible.

Cell passage

Growth medium: RPMI 1640+10% FBS+1% P.S+0.05 mM β-Me+0.25 μg/mL Puromycin

After the initial thawing, the first passage can be performed in approximately 3-4 days. After two passages, the culture medium can be adjusted to a growth medium supplemented with antibiotics. If passaging is not possible within 3 days, it is recommended to add an appropriate amount of recovery medium and place the flask horizontally.

a) When the cell density reaches 1 - 1.2E6 cells/mL, subculture the cells. Do not allow the cell density to exceed 1.2E6 cells/mL.

b) It is recommended to use T-25 flasks for subculturing.

c) These cells are suspension cells, and it is recommended to use the "half-medium change" method to maintain optimal cell conditions during passaging.

d) During passaging, you can directly add fresh growth medium to the culture flask, gently pipette to resuspend the cells, and then transfer the cell suspension to a new T-25 flask for continued culture.

Subcultivation Ratio: Maintain cultures at a cell concentraion between 3E5 and 8E5 viable cells/mL.

Medium Renewal: Every 2 to 3 days

Notes

a) The cells are difficult to revive, and after thawing, it takes 1 - 2 weeks for them to return to their normal morphology.

Related Products

Labeled Cells	
Luciferase-GFP MCF-7 Cell Line	GFP MKN45 Cell Line
Luciferase A498 Cell Line	Luciferase B16-F10 Cell Line

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Luciferase HL-60 Cell Line	Luciferase MIA PaCa-2 Cell Line
Luciferase MM.1R Cell Line	Luciferase OVCAR3 Cell Line
Luciferase U-937 Cell Line	Luciferase-ZsGreen1 K562 Cell Line
Luciferase-ZsGreen1 Raji Cell Line	
D-Luciferin, Potassium Salt	D-Luciferin, Sodium Salt

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