

Lenti-X293T | 305820

General information

Description	Lenti-X293T is a HEK 293T cell line that is highly transfectable and produces high titers of lentiviral particles. It is derived from HEK 293 cells and is stably transfected with a constitutively active HIV-1 provirus. Lenti-X293T cells are used for the production of lentiviral particles, which are used for gene delivery into target cells. Lenti-X293T cells are also used for the production of lentiviral libraries, which are used for high-throughput screening.
Organism	HEK 293T
Tissue	Embryonic kidney
Disease	None (HEK 293T cells are not associated with any disease)
Applications	Gene delivery, gene expression, gene silencing, gene editing, gene therapy, gene screening
Synonyms	Lenti-X 293T; 293T; HEK 293T

Cell characteristics

Age	1-3 years
Gender	Male
Morphology	Epithelial cells
Cell type	HEK 293T cells
Growth properties	Adherent, growth in DMEM/F12 medium, growth in 37°C

Identification and safety

Citation	Lenti-X293T (HEK 293T) Cytion 305820
Biosafety level	2
NCBI_TaxID	9606
CellosaurusAccession	CVCL_0063 (HEK 293T)

Product sheet

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GMO Status Not a GMO (contains DNA from SV40; contains T antigen SV40)

Product description Lenti-X293T

Protein expression T antigen SV40

Antigen expression T antigen SV40

Oncogenes T antigen SV40

Tumorigenic Not tumorigenic (Lenti-X293T)

Viruses Contains DNA from SV40; contains T antigen SV40

Virus susceptibility Not susceptible to any virus

Ploidy status Diploid, triploid (Lenti-X293T)

Mutational profile No mutations; contains DNA from SV40; contains T antigen SV40.

Karyotype Not applicable (Lenti-X293T)

Product description

Culture Medium DMEM, w: 4.5 g/L D-glucose, w: 4 mM L-glutamine, w: 3.7 g/L NaHCO₃, w: 1.0 mM sodium pyruvate (Cytion 820300a)

Supplements 10% FBS

Dissociation Reagent Trypsin

Doubling time 20-24 hours

Subculturing Subculture into fresh medium; 48 hours after subculture

Split ratio 1:5 to 1:10.

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Seeding density 2 x 10⁴ x 4 x 10⁴ / ml

Fluid renewal 2-3 times

Freeze medium DMEM supplemented with 10% FBS, 10% DMSO and 10% FBS + 10% DMSO

Thawing and Culturing Cells

1. Thaw the cells quickly in a water bath at 37°C, transfer to a centrifuge tube and centrifuge at 300 x g for 5 min.
2. Remove the supernatant, resuspend the cells in DMEM supplemented with 10% FBS and 10% DMSO, and transfer to a new flask.
3. Seed the cells into a 24-well plate (1 x 10⁴ cells per well) or a 96-well plate (1 x 10⁵ cells per well).
4. Incubate the cells for 24 hours at 37°C in 5% CO₂.
5. After 24 hours, replace the medium with DMEM supplemented with 10% FBS and 10% DMSO.
6. After 48 hours, replace the medium with DMEM supplemented with 10% FBS and 10% DMSO.
7. After 72 hours, replace the medium with DMEM supplemented with 10% FBS and 10% DMSO.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating No

Shipping Conditions Cells are shipped in a dry ice container at -78°C.

Storage Conditions Cells can be stored at -150°C for up to 196 days.

Additional Information