

### Cell Culture C643 | 300298

#### Cell Culture

**Description** Cell Culture C643 was established by Mark et al. in 1987, derived from a primary culture of human foreskin fibroblasts (HFF) and immortalized by the expression of the SV40 large T antigen (LT) and the SV40 small t antigen (st). The cells are maintained in DMEM supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin (P/S). For long-term storage, cells are cryopreserved in DMEM supplemented with 10% FBS and 1% P/S containing 10% dimethyl sulfoxide (DMSO). Cell Culture C643 is a cell line that is used for the production of viral vectors. The cells are maintained in DMEM supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin (P/S). For long-term storage, cells are cryopreserved in DMEM supplemented with 10% FBS and 1% P/S containing 10% dimethyl sulfoxide (DMSO). Cell Culture C643 is a cell line that is used for the production of viral vectors.

**Organism** Human

**Tissue** Skin fibroblasts

**Disease** None

**Synonyms** C 643, C-643, c643

#### Cell Culture

**Age** 76 days

**Gender** Male

**Ethnicity** Caucasian

**Morphology** Fibroblastic

**Growth properties** Adherent, continuous

#### Cell Culture

**Citation** C643 (Cell Culture Cytion 300298)

**Biosafety level** 1

**NCBI\_TaxID** 9606

**CellSaurusAccession** CVCL\_5969

**HEK293T C643 | 300298**

**HEK293T C643 - HEK293T C643**

**Tumorigenic**      No, non-tumorigenic

**HEK293T**

**Culture Medium**      RPMI 1640, w: 2.0 mM  $\beta$ -mercaptoethanol, w: 2.0 g/L NaHCO<sub>3</sub> (Cytion 820700a)

**Supplements**      HEK293T 10% FBS

**Dissociation Reagent**      Trypsin

**Subculturing**      HEK293T cells are cultured in HEK293T medium containing 10% FBS. Cells are seeded into T25 flasks, 3-5 x 10<sup>6</sup> cells per flask. Cells are harvested by trypsinization and resuspended in PBS.

**Seeding density**      1 x 10<sup>4</sup> cells per flask

**Fluid renewal**      2-3 times per week

**Post-Thaw Recovery**      HEK293T cells are thawed into 10% FBS medium and cultured for 24 hours.

**Freeze medium**      HEK293T cells are frozen in HEK293T medium containing 10% FBS + 10% DMSO.

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**Thawing and Culturing Cells**

1. Thaw the vial quickly in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed T25 flask containing 10 ml of pre-warmed cell culture medium.
2. Allow the cells to settle for 15 minutes. Add 10 ml of fresh cell culture medium to the flask.
3. Incubate the cells in a humidified incubator at 37°C with 5% CO<sub>2</sub>.
4. Check the cells daily under a microscope. When the cells reach 70-80% confluency, they are ready for passage.
5. Prepare a new T25 flask with 10 ml of pre-warmed cell culture medium.
6. Add 3 ml of the cell suspension to the new flask. The remaining 7 ml can be discarded.
7. Incubate the cells in a humidified incubator at 37°C with 5% CO<sub>2</sub>.
8. Repeat the process when the cells reach 70-80% confluency.

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>, humidified

**Flask Coating** No

**Freezing Procedure** Harvest cells at 70-80% confluency. Wash with PBS, trypsinize, and resuspend in freezing medium. Aliquot into 1 ml vials and store at -80°C.

**Shipping Conditions** Store at -80°C. Ship on dry ice in a cool box.

**Storage Conditions** Store at -150°C for up to 196 weeks.

**Cell Culture / HLA**

**Sterility** The cells are free of mycoplasmas and PCR detectable. They are also free of endotoxins.