

# HEK293A | 305070

**Description**  
HEK293A (HEK293) is a cell line derived from HEK293 cells. HEK293A is a derivative of HEK293 cells that has been adapted to grow in the presence of the antibiotic puromycin. HEK293A cells are commonly used for the production of recombinant proteins and for the study of gene expression and cellular signaling. HEK293A cells are characterized by their high growth rate and their ability to express a wide range of heterologous proteins. HEK293A cells are also used for the production of viral vectors and for the study of viral replication and assembly.

**Organism** *Homo sapiens*

**Tissue** Embryonic kidney

**Synonyms** HEK-293, HEK293, HEK293A, HEK293T, HEK293S, HEK293L, HEK293F, HEK293G, HEK293H, HEK293I, HEK293J, HEK293K, HEK293L, HEK293M, HEK293N, HEK293O, HEK293P, HEK293Q, HEK293R, HEK293S, HEK293T, HEK293U, HEK293V, HEK293W, HEK293X, HEK293Y, HEK293Z

**Age** 1-3 months

**Gender** Male

**Morphology** Adherent

**Growth properties** High growth rate

**Citation** HEK293A (ATCC CRL-1573) (305070)

**Biosafety level** 1

**NCBI\_TaxID** 9606

**CellosaurusAccession** CVCL\_6910

**GMO Status** GMO-S1: HEK293A cells derived from HEK293 cells (ATCC CRL-1573) and SV40 (ATCC CRL-1573) are considered GMO-S1.

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**Culture Medium** EMEM (MEM Eagle) 2 mM L-Glutamine (200 mg/ml) 2.2 mM NaHCO<sub>3</sub> EBSS ( Gibco 820100a )

**Supplements** 10% FBS 1% Penicillin 1% Streptomycin

**Dissociation Reagent** Trypsin

**Subculturing** Wash cells with PBS. Add 1 ml of trypsin solution. Incubate at 37°C for 5-10 minutes. Add 10 ml of fresh medium to stop the reaction. Pipette up and down to dissociate cells. Centrifuge at 300 x g for 5 minutes. Resuspend in fresh medium.

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

**Freeze medium** FBS + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw vials in a 37°C water bath.
  2. Centrifuge at 300 x g for 5 minutes.
  3. Resuspend in 1 ml of fresh medium.
  4. Seed into a 24-well plate (70% confluency).
  5. Incubate at 37°C for 8-15 days.
  6. Harvest cells at 300 x g for 3 minutes.
  7. Wash cells with PBS.
  8. Resuspend in fresh medium.

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

**Flask Coating** None

