Biosafety level:	2
Organism:	Homo sapiens (human)
Tissue:	kidney
<b>Growth Properties:</b>	adherent
Morphology:	epithelial
Comments:	The 293T/17 cell line is a derivative of the 293T
	(293tsA1609neo) cell line. 293T is a highly transfectable
	derivative of the 293 cell line into which the temperature
	sensitive gene for SV40 T-antigen was inserted. 293T cells were
	cloned and the clones tested with the pBND and pZAP vectors to
	obtain a line capable of producing high titers of infectious
	retrovirus, 293T/17. These cells constitutively express the simian
	virus 40 (SV40) large T antigen, and clone 17 was selected
	specifically for its high transfectability.
Subculturing:	Remove medium, and rinse with PBS containing 0.5 mM EDTA.
	Remove the solution and add trypsin-EDTA solution (1 ml/10-cm
	dish). Incubate the culture dish at room temperature until the
	cells detach (for 5-10 min). Add fresh culture medium, aspirate
	and transfer into a tube. Centrifuge the tube at $171 \ge g$ for 3 min,
	remove medium and tap the bottom of the tube to dissociate the
	cell pellet. Add fresh culture medium and dispense the cells into a
	new culture dish.
Medium:	DMEM (GIBCO, 11965) with MEM Sodium Pyruvate Solution
	100 mM (100x) (GIBCO, 11360), Penicillin-Streptomycin (50x)
	(GIBCO, 15070), MEM Non-Essential Amino Acids Solution 10
	mM (100x) (GIBCO, 11140) and 10% fetal bovine serum
Split Ratio:	A subcultivation ratio of 1:3 to 1:30 is recommended. Subcultures
	at a 1:20 split ratio achieved confluency within another 3 days.
	Subcultures at a 1:30 split ratio achieved confluency within
	another 4 days.
Fluid Renewal:	2 to 3 times per week
Freeze Medium:	Complete growth medium supplemented with 10 % (v/v)
	dimethyl sulfoxide (DMSO) (1 ml of freeze medium per 10-cm

dish per tube)

Note:

A confluent 10-cm dish has  $2-3 \times 10^7$  cells.

**Reference:**