

XXXXXXXXXX XXXXXXXXXX

[illegible]Organism ☒☒☒Tissue XXX

Synonyms HaCaT-ras A-5, HaCaT A-5, A-5, A5

XXXXXXXXXXXX

Age 62 ㉔㉕㉖㉗

Gender ☐ ☐ ☐ ☐

Ethnicity ☒ ☒ ☒ ☒ ☒

Cell type

Growth properties

XXXXXXXXXX XXXXXXXXXXXXXXXXXX

Citation HaCaT-ras A5 (XXXXXXXXXX Cytion 300494)

Biosafety level	1
------------------------	---

NCBI TaxID 9606

CellosaurusAccession CVCL_xK16

Product sheet

HaCaT-ras A5 | 300494

GMO Status

GMO-S1: HaCaT-ras A5 is a cell line derived from human skin keratinocytes expressing a constitutively active c-Ha-ras gene. It is not a transgenic organism and does not contain any foreign DNA sequences.

Protein expression

P53 (+), CEA (+),

Tumorigenic

HaCaT-ras A5 cells are tumorigenic in Balb/c-nu/nu.

Karyotype

46,XX (normal female karyotype)

Culture Medium

DMEM, w: 4.5 g/L 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

1:1 EDTA (0.05%) / 0.1% trypsin (0.1%) / 0.1% EDTA. Cells are dissociated in PBS containing Ca²⁺ and Mg²⁺.

Subculturing

1. Seed cells into T25 or T75 flasks.
2. Seed cells into T25 or T75 flasks (5-10 x 10⁴ cells per flask).
3. Seed cells into T25 or T75 flasks (5-10 x 10⁴ cells per flask).
4. Seed cells into T25 or T75 flasks (5-10 x 10⁴ cells per flask).
5. Seed cells into T25 or T75 flasks (5-10 x 10⁴ cells per flask).
6. Seed cells into T25 or T75 flasks (5-10 x 10⁴ cells per flask).
7. Seed cells into T25 or T75 flasks (5-10 x 10⁴ cells per flask).
8. Seed cells into T25 or T75 flasks (5-10 x 10⁴ cells per flask).

Seeding density

1 x 10⁴ cells/cm²

Fluid renewal

Change medium every 3-4 days.

Freeze medium

Freeze cells in DMEM + 10% FBS + 10% DMSO. Store at -80°C.

HaCaT-ras A5 | 300494

Thawing and
Culturing Cells

1. Thaw the cells quickly in a water bath at 37°C, then transfer the cells to a tube and centrifuge at 300 x g for 3 minutes.
2. Remove the supernatant, wash the cells with DMEM without serum and antibiotics at 150°C, then resuspend the cells in 1 ml of DMEM without serum and antibiotics.
3. Seed the cells in a 25 cm² flask, then add 10 ml of DMEM without serum and antibiotics. Incubate the cells for 37°C for 24 hours.
4. After 24 hours, replace the medium with DMEM without serum and antibiotics, then incubate the cells for 70% confluence.
5. After 70% confluence, trypsinize the cells and seed them in a 25 cm² flask with 15 ml of DMEM without serum and antibiotics. Incubate the cells for 15 days.
6. After 15 days, trypsinize the cells and seed them in a 25 cm² flask with 15 ml of DMEM without serum and antibiotics. Incubate the cells for 15 days.
7. After 15 days, trypsinize the cells and seed them in a 25 cm² flask with 15 ml of DMEM without serum and antibiotics. Incubate the cells for 15 days.
8. After 15 days, trypsinize the cells and seed them in a 25 cm² flask with 15 ml of DMEM without serum and antibiotics. Incubate the cells for 15 days.

Incubation
Atmosphere

37°C, 5% CO₂, humidified

Flask Coating

Not required

Freezing
Procedure

Resuspend the cells in 1 ml of DMEM without serum and antibiotics, then add 10% FBS and 10% DMSO. Freeze the cells at -80°C.

Shipping
Conditions

Ship the cells at -80°C in a dry ice container.

Storage
Conditions

Store the cells at -150°C for 196 hours.

Quality Control

Sterility

Tested by PCR for mycoplasma contamination. No contamination detected.

Tested by PCR for mycoplasma contamination. No contamination detected.

HaCaT-ras A5 | 300494

HLA	A* : '31:01:02
	B* : '40:01:02, '51:01:01
	C* : 03:04:01, 15:02:01
	DRB1* : '04:01:01, '15:01:01G
	DQA1* : '01:02:01, '03:03:01
	DQB1* : '03:01:01, '06:02:01
	DPB1* : '03:01:01G, '04:01:01G
	E : 01:03:01, 01:03:02