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HEp-2 MRC-5 | 300395

Virus susceptibility HEp-2 cells are highly susceptible to SARS 2 (SARS-CoV-2) (COVID-19)

Karyotype MRC5 cells have a normal karyotype with 46 chromosomes.

HEp-2

Culture Medium EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO₃, w: EBSS (HEPES, NaCl, KCl, MgSO₄, CaCl₂, NaH₂PO₄, Cytion 820100a)

Supplements HEp-2 cells require 10% FBS and 1% NEAA

Dissociation Reagent Trypsin

Subculturing HEp-2 cells are grown in 75 cm² flasks in EMEM medium supplemented with 10% FBS and 1% NEAA. Cells are passaged when they reach 80-90% confluency. Cells are trypsinized and resuspended in PBS, then seeded into new flasks at a density of 1-3 x 10⁶ cells per flask.

Freeze medium HEp-2 cells are frozen in EMEM medium supplemented with 10% FBS and 10% DMSO. Cells are frozen in 1 mL aliquots and stored at -80°C.

Thawing and Culturing Cells

1. HEp-2 cells are thawed in a water bath at 37°C and then seeded into a 75 cm² flask in EMEM medium supplemented with 10% FBS and 1% NEAA.
2. HEp-2 cells are grown in 75 cm² flasks in EMEM medium supplemented with 10% FBS and 1% NEAA. Cells are passaged when they reach 80-90% confluency. Cells are trypsinized and resuspended in PBS, then seeded into new flasks at a density of 1-3 x 10⁶ cells per flask.
3. HEp-2 cells are grown in 75 cm² flasks in EMEM medium supplemented with 10% FBS and 1% NEAA. Cells are passaged when they reach 80-90% confluency. Cells are trypsinized and resuspended in PBS, then seeded into new flasks at a density of 1-3 x 10⁶ cells per flask.
4. HEp-2 cells are grown in 75 cm² flasks in EMEM medium supplemented with 10% FBS and 1% NEAA. Cells are passaged when they reach 80-90% confluency. Cells are trypsinized and resuspended in PBS, then seeded into new flasks at a density of 1-3 x 10⁶ cells per flask.
5. HEp-2 cells are grown in 75 cm² flasks in EMEM medium supplemented with 10% FBS and 1% NEAA. Cells are passaged when they reach 80-90% confluency. Cells are trypsinized and resuspended in PBS, then seeded into new flasks at a density of 1-3 x 10⁶ cells per flask.
6. HEp-2 cells are grown in 75 cm² flasks in EMEM medium supplemented with 10% FBS and 1% NEAA. Cells are passaged when they reach 80-90% confluency. Cells are trypsinized and resuspended in PBS, then seeded into new flasks at a density of 1-3 x 10⁶ cells per flask.
7. HEp-2 cells are grown in 75 cm² flasks in EMEM medium supplemented with 10% FBS and 1% NEAA. Cells are passaged when they reach 80-90% confluency. Cells are trypsinized and resuspended in PBS, then seeded into new flasks at a density of 1-3 x 10⁶ cells per flask.
8. HEp-2 cells are grown in 75 cm² flasks in EMEM medium supplemented with 10% FBS and 1% NEAA. Cells are passaged when they reach 80-90% confluency. Cells are trypsinized and resuspended in PBS, then seeded into new flasks at a density of 1-3 x 10⁶ cells per flask.

Incubation Atmosphere 37°C, 5% CO₂, humidified

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Flask Coating XX XXX

**Freezing
Procedure**

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**Shipping
Conditions**

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**Storage
Conditions**

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Sterility

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- A*:** '02:01:01, '29:02:01
- B*:** 07:02:01, 44:02:01
- C*:** 05:01:01, 07:02:01
- DRB1*:** '04:08:01, '15:01:01G
- DQA1*:** '01:02:01, '03:03:01
- DQB1*:** '03:01:01, '06:02:01
- DPB1*:** 04:01:01
- E:** 01:01:01