

MARC-145 | 305006

General information

Description	MARC-145 is a cell line derived from a male rhesus monkey (Cercopithecus aethiops). It is a continuous cell line that grows in the presence of 10% FBS. MARC-145 is a cell line that is highly resistant to PRRSV infection, and it is used for the study of PRRSV infection and the development of vaccines.
Organism	Chlorocebus pygerythrus (Rhesus monkey)
Tissue	Embryonic kidney
Synonyms	Marc-145, MARC 145, Marc 145, MARC145, Marc145, Cercopithecus aethiops MARC-145

Characteristics

Age	Adult
Morphology	Epithelial
Growth properties	Adherent

Identification and authentication

Citation	MARC-145 (ATCC CCL-22) Cytion 305006
Biosafety level	1
NCBI_TaxID	60710
CellSaurusAccession	CVCL_4540

Genotyping and sequencing

Media

Culture Medium	DMEM, w: 4.5 g/L D-glucose, w: 4 mM L-glutamine, w: 3.7 g/L NaHCO ₃ , w: 1.0 mM sodium pyruvate (Cytion 820300a)
Supplements	10% FBS

MARC-145 | 305006

Dissociation Reagent **Trypsin**

Subculturing **Cells are grown in 25 cm² flasks in DMEM supplemented with 10% FBS. For subculturing, cells are trypsinized and seeded into new flasks. The medium is replaced with fresh DMEM + 10% FBS. Cells are grown at 37°C in 5% CO₂.**

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

Freeze medium **DMEM supplemented with 10% FBS + 10% DMSO. Cells are grown in 25 cm² flasks in DMEM + 10% FBS. For freezing, cells are trypsinized and seeded into new flasks. The medium is replaced with fresh DMEM + 10% FBS. Cells are grown at 37°C in 5% CO₂.**

Thawing and Culturing Cells

1. **Cells are thawed in a 37°C water bath. The cells are then seeded into a 25 cm² flask in DMEM + 10% FBS. The medium is replaced with fresh DMEM + 10% FBS. Cells are grown at 37°C in 5% CO₂.**
2. **Cells are grown in 25 cm² flasks in DMEM + 10% FBS. For subculturing, cells are trypsinized and seeded into new flasks. The medium is replaced with fresh DMEM + 10% FBS. Cells are grown at 37°C in 5% CO₂.**
3. **Cells are grown in 25 cm² flasks in DMEM + 10% FBS. For subculturing, cells are trypsinized and seeded into new flasks. The medium is replaced with fresh DMEM + 10% FBS. Cells are grown at 37°C in 5% CO₂.**
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5. **Cells are grown in 25 cm² flasks in DMEM + 10% FBS. For subculturing, cells are trypsinized and seeded into new flasks. The medium is replaced with fresh DMEM + 10% FBS. Cells are grown at 37°C in 5% CO₂.**
6. **Cells are grown in 25 cm² flasks in DMEM + 10% FBS. For subculturing, cells are trypsinized and seeded into new flasks. The medium is replaced with fresh DMEM + 10% FBS. Cells are grown at 37°C in 5% CO₂.**
7. **Cells are grown in 25 cm² flasks in DMEM + 10% FBS. For subculturing, cells are trypsinized and seeded into new flasks. The medium is replaced with fresh DMEM + 10% FBS. Cells are grown at 37°C in 5% CO₂.**
8. **Cells are grown in 25 cm² flasks in DMEM + 10% FBS. For subculturing, cells are trypsinized and seeded into new flasks. The medium is replaced with fresh DMEM + 10% FBS. Cells are grown at 37°C in 5% CO₂.**

Incubation Atmosphere **37°C, 5% CO₂, humidified**

Flask Coating **None**

Freezing Procedure **Cells are grown in 25 cm² flasks in DMEM + 10% FBS. For freezing, cells are trypsinized and seeded into new flasks. The medium is replaced with fresh DMEM + 10% FBS. Cells are grown at 37°C in 5% CO₂.**

Shipping Conditions **Cells are grown in 25 cm² flasks in DMEM + 10% FBS. For shipping, cells are trypsinized and seeded into new flasks. The medium is replaced with fresh DMEM + 10% FBS. Cells are grown at 37°C in 5% CO₂.**

Product sheet

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Storage
Conditions

Store at -150 to -196 °C. Do not freeze. Do not thaw. Do not use after expiration date.

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Sterility

The product is sterile and ready to use for PCR.

Do not use after expiration date. Do not use if the product is not in its original packaging.