

MA-104 | 305007

General information

Description	MA-104 is a cell line derived from a primary culture of human embryonic kidney cells. It is a continuous cell line that can be grown in the presence of 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin (PS). The cells are typically grown in DMEM/F12 medium supplemented with 10% FBS and 1% PS. The cells are characterized by their high growth rate and ability to form colonies in soft agar.
Organism	Chlorocebus pygerythrus (Rhesus monkey)
Tissue	Kidney
Synonyms	Ma-104, MA 104, MA104, Microbiological Associates-104

Characteristics

Age	Adult
Morphology	Epithelial
Growth properties	Adherent

Identification and safety

Citation	MA-104 (ATCC CCL-22) Cytion 305007
Biosafety level	1
NCBI_TaxID	60710
CellosaurusAccession	CVCL_3845

Genetic information

Media

Culture Medium	EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO3, w: EBSS (Cytion 820100a)
Supplements	10% FBS 1% NEAA

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Dissociation
Reagent

Subculturing

Cells are grown in medium containing 10% FBS. For subculturing, cells are trypsinized with Trypsin-EDTA solution (2.5 mg/ml Trypsin, 0.5 mg/ml EDTA) in PBS. Cells are then washed with PBS and resuspended in medium containing 10% FBS. Cells are then seeded into new flasks.

Fluid renewal

2 x 3 times weekly

Freeze
medium

Cells are grown in medium containing 10% FBS. For freezing, cells are trypsinized with Trypsin-EDTA solution (2.5 mg/ml Trypsin, 0.5 mg/ml EDTA) in PBS. Cells are then washed with PBS and resuspended in medium containing 10% FBS. Cells are then seeded into new flasks.

Thawing and
Culturing Cells

1. Cells are thawed in a water bath at 37°C. Cells are then washed with PBS and resuspended in medium containing 10% FBS. Cells are then seeded into new flasks.
2. Cells are grown in medium containing 10% FBS. For subculturing, cells are trypsinized with Trypsin-EDTA solution (2.5 mg/ml Trypsin, 0.5 mg/ml EDTA) in PBS. Cells are then washed with PBS and resuspended in medium containing 10% FBS. Cells are then seeded into new flasks.
3. Cells are grown in medium containing 10% FBS. For subculturing, cells are trypsinized with Trypsin-EDTA solution (2.5 mg/ml Trypsin, 0.5 mg/ml EDTA) in PBS. Cells are then washed with PBS and resuspended in medium containing 10% FBS. Cells are then seeded into new flasks.
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6. Cells are grown in medium containing 10% FBS. For subculturing, cells are trypsinized with Trypsin-EDTA solution (2.5 mg/ml Trypsin, 0.5 mg/ml EDTA) in PBS. Cells are then washed with PBS and resuspended in medium containing 10% FBS. Cells are then seeded into new flasks.
7. Cells are grown in medium containing 10% FBS. For subculturing, cells are trypsinized with Trypsin-EDTA solution (2.5 mg/ml Trypsin, 0.5 mg/ml EDTA) in PBS. Cells are then washed with PBS and resuspended in medium containing 10% FBS. Cells are then seeded into new flasks.
8. Cells are grown in medium containing 10% FBS. For subculturing, cells are trypsinized with Trypsin-EDTA solution (2.5 mg/ml Trypsin, 0.5 mg/ml EDTA) in PBS. Cells are then washed with PBS and resuspended in medium containing 10% FBS. Cells are then seeded into new flasks.

Incubation
Atmosphere

37°C, 5% CO₂, humidified

Flask Coating

Yes

Freezing
Procedure

Cells are grown in medium containing 10% FBS. For freezing, cells are trypsinized with Trypsin-EDTA solution (2.5 mg/ml Trypsin, 0.5 mg/ml EDTA) in PBS. Cells are then washed with PBS and resuspended in medium containing 10% FBS. Cells are then seeded into new flasks.

Shipping
Conditions

Cells are grown in medium containing 10% FBS. For freezing, cells are trypsinized with Trypsin-EDTA solution (2.5 mg/ml Trypsin, 0.5 mg/ml EDTA) in PBS. Cells are then washed with PBS and resuspended in medium containing 10% FBS. Cells are then seeded into new flasks.

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