

Product sheet

CV-1 | 605471

CV-1

Description
CV-1 is a continuous cell line derived from a human embryo in 1964. It is a fibroblast cell line that grows in the presence of 10% fetal bovine serum (FBS) in DMEM medium. CV-1 cells are used for a wide range of applications, including cell biology, virology, and drug screening. CV-1 cells are maintained in DMEM medium supplemented with 10% FBS. CV-1 cells are derived from a human embryo (TK) and are maintained in DMEM medium supplemented with 10% FBS.

Organism Human

Tissue Embryo

Applications Cell biology, virology, drug screening, SV40.

Synonyms Cv-1, CV 1, CV-1.K, CV-1.C, CV1

CV-1

Age 141 days

Gender Male

Cell type Fibroblast

Growth properties Adherent

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Citation CV-1 (ATCC CRL-1573) | 605471

Biosafety level 1

NCBI_TaxID 9534

CellosaurusAccession CVCL_0229

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Virus susceptibility [REDACTED]

Reverse transcriptase [REDACTED]

[REDACTED]

Culture Medium EMEM (MEM Eagle) [REDACTED] 2 [REDACTED] [REDACTED] 2.2 [REDACTED] NaHCO₃ [REDACTED] EBSS ([REDACTED] 820100a [REDACTED])

Supplements [REDACTED] 10 [REDACTED] [REDACTED] 1 [REDACTED]

Dissociation Reagent [REDACTED]

Subculturing [REDACTED] PBS [REDACTED]

Split ratio [REDACTED] 1:2 [REDACTED] 1:3

Seeding density 3 [REDACTED] $4 \times \frac{10^4}{\text{cm}^2}$ [REDACTED] 4 [REDACTED]

Fluid renewal 2 [REDACTED]

Post-Thaw Recovery [REDACTED] $4 \times \frac{10^4$ [REDACTED] 24 [REDACTED]

Freeze medium [REDACTED] ([REDACTED] FBS) + 10% DMSO [REDACTED]

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Thawing and Culturing Cells

1. Thaw the cells rapidly in a water bath at 37°C. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in a pre-warmed medium.
3. Seed the cells into a pre-warmed medium. Incubate at 37°C in a humidified atmosphere.
4. Monitor the cell growth. The cells should reach 70% confluency within 7-10 days.
5. Harvest the cells when they reach 70-80% confluency. Seed the cells into a pre-warmed medium.
6. Incubate the cells at 37°C in a humidified atmosphere.
7. Monitor the cell growth. The cells should reach 70% confluency within 7-10 days.
8. Harvest the cells when they reach 70-80% confluency. Seed the cells into a pre-warmed medium.

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

Shipping Conditions Store at -150°C to -196°C in liquid nitrogen

Storage Conditions Store at -150°C to -196°C in liquid nitrogen

CV-1 / HLA

Sterility The cells are free of mycoplasmas and other contaminants. The cells are tested for mycoplasmas using PCR.