



AddexBio

*Innovative Tools that Drive Biological
and Pharmaceutical Research*

Information

Catalog #:

T0016002

Disease:

Normal

Origin:

The MRC-5 cell line was derived from normal lung tissue of a 14-week-old male fetus in 1966.

Species:

Human, Homo sapiens

Tissue:

Lung

Morphology:

Fibroblast

Properties:

Adherent

Cytogenic data:

Chromosome Frequency Distribution 50 Cells: $2n = 46$. This is a normal diploid human cell line with 46,XY karyotype. The modal chromosome number was 46, occurring in 70% of cells. The rate of polyploidy was 3.6%. Both X and Y chromosomes were normal. Cytogenetic instability has been reported in the literature for some cell lines.

Patient:

Male, Caucasian, 14 weeks gestation

Medium:

AddexBio-formulated EMEM ([C0005-01](#)) + 10% FBS

Subculture:

Split sub-confluent cultures (70-80%) 1:2 to 1:5 using 0.25% trypsin/EDTA. Culture at 5% CO₂, 37°C. Feed cells once every 2 to 3 days.

Freezing Medium:

Complete culture medium supplemented with 5% (v/v) DMSO

Biosafety Level:

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Sterility:

Bacteria: Negative

Yeast: Negative

Mycoplasma: Negative

Pathogens:

HIV: Negative

Hepatitis B: Negative

Hepatitis C: Negative

DNA Profile (STR):

Amelogenin: X,Y

CSF1PO: 11,12

D13S317: 11,14

D16S539: 9,11

D5S818: 11,12

D7S820: 10,11

TH01: 8

TPOX: 8

vWA: 15

If use of this culture results in a scientific publication, it should be cited in the publication as: MRC-5 (AddexBio T0016002)

Related cells by Organ:

[A427 cells](#)

[A549 cells](#)

[Calu3 cells](#)

[H1650 cells](#)

[H1703 cells](#)

[H1975 cells](#)

[H226 cells](#)

[H23 cells](#)

[H460 cells](#)

[H520 cells](#)

[HCC4006 cells](#)

[SW1573 cells](#)

[3D4/2 cells](#)

[BEAS-2B cells](#)

[MRC-5 cells](#)

[Mv 1 Lu cells](#)

[RLE-6TN cells](#)

References for MRC-5 cells:

1. Jacobs JP, Jones CM, Baille JP. Characteristics of a human diploid cell designated MRC-5. Nature. 1970 Jul 11;227(5254):168-170. [PMID: 4316953](#)

Certificate of Analysis/MSDS is available upon request with lot number

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