

Product sheet

**MRC-5 | 300395**

**General Information**

<b>Description</b>	MRC-5, a continuous cell line derived from a 14-year-old male in 1966, is a fibroblast cell line that is widely used in research. It is characterized by its ability to proliferate indefinitely in culture and its sensitivity to various growth factors. MRC-5 cells are typically grown in DMEM supplemented with 10% fetal bovine serum (FBS) and are used for a wide range of applications, including drug screening, toxicology, and basic research on cell growth and differentiation.
<b>Organism</b>	Human
<b>Tissue</b>	Embryonic fibroblasts
<b>Applications</b>	Cell culture, drug screening, toxicology
<b>Synonyms</b>	MRC5, MRC 5, MRCV, MRC-V, Hs 578st, Hs 578st, Hs 578st

**Characteristics**

<b>Age</b>	14 years
<b>Gender</b>	Male
<b>Cell type</b>	Fibroblast
<b>Growth properties</b>	Adherent

**References and Safety**

<b>Citation</b>	MRC-5 (ATCC CCL-17)   Cytion 300395
<b>Biosafety level</b>	1
<b>NCBI_TaxID</b>	9606
<b>CellSaurusAccession</b>	CVCL_0440

**Ordering and Contact Information**

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**Virus susceptibility** SARS 2 (SARS-CoV-2) (COVID-19)

**Karyotype** MRC5 46, XX, XY

**Media**

**Culture Medium** EMEM (MEM Eagle), w: 2 mM L-Glutamine, w: 2.2 g/L NaHCO<sub>3</sub>, w: EBSS (Cytion 820100a)

**Supplements** 10% FBS, 1% NEAA

**Dissociation Reagent** Trypsin

**Subculturing** 1. Add 1 ml of PBS to the cells. 2. Add 1 ml of Trypsin. 3. Incubate at 37°C for 3-5 minutes. 4. Add 1 ml of PBS. 5. Centrifuge at 300 x g for 3 minutes. 6. Resuspend in 1 ml of medium.

**Freeze medium** 10% FBS + 10% DMSO

**Thawing and Culturing Cells**

1. Thaw the cells in a 37°C water bath.
2. Add 1 ml of PBS to the cells.
3. Add 1 ml of Trypsin.
4. Incubate at 37°C for 3-5 minutes.
5. Add 1 ml of PBS.
6. Centrifuge at 300 x g for 3 minutes.
7. Resuspend in 1 ml of medium.
8. Seed the cells into a T25 flask.

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>

