

WERI-Rb-1 | 300632

WERI-Rb-1

Description	WERI-Rb-1 is a cell line derived from a human embryo, established in 1962. It is a continuous cell line that grows in the presence of insulin, transferrin, and selenium (ITS). WERI-Rb-1 is a fibroblast cell line that is used for various research purposes, including drug screening and toxicology studies.
Organism	Human
Tissue	Embryo
Disease	None
Applications	Drug screening, toxicology studies, cell biology research
Synonyms	WERI-RB-1, WERI-Rb 1, WERI-Rb1, WERI-RB1, WERI Rb-1, WERIRb1, WERI, WERI-Rb-1 (ATCC CCL-1792) - WERI-Rb-1

Characteristics

Age	1-2 years
Gender	Male
Morphology	Fibroblast
Growth properties	Adherent

Media and supplements

Citation	WERI-Rb-1 (ATCC CCL-1792) Cytion 300632
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1792

Media and supplements

Product sheet

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Isoenzymes	ES-D, 1, G6PD, B, GLO-I, 2, Me-2, 1, PGM1, 1, PGM3, 0
Tumorigenic	no, non-tumorigenic
Viruses	EBV -, HBV -, HCV -, HHV-8 -, HIV-1 -, HIV-2 -, HTLV-1/2 -, MLV -, SMRV -
Reverse transcriptase	negative
Karyotype	normal human karyotype 46(41-48)2n>xx, +6, -10, -10, -14, -22, +3mar, add(3)(q25), add(7)(p21), add(9)(q33), der(13)x2, add(16)(q23), add(16)(q23), i(17q), add(19)(q13) - normal human (46-48) karyotype

Characteristics

Culture Medium	RPMI 1640, w: 2.0 mM NaH_2PO_4 , w: 2.0 g/L NaHCO_3 (Cytion 820700a)
Supplements	10% FBS 0.01 $\mu\text{g}/\text{ml}$ β -mercaptoethanol
Subculturing	1:5

Freeze medium	10% FBS + 40% DMSO, CM-1 (Cytion 800100), 50% FBS
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Thawing and Culturing Cells	1. Thaw cells quickly in a water bath at 37°C, transfer to a sterile tube, and add 10 ml of culture medium. 2. Centrifuge at 300 x g for 5 minutes, remove supernatant, and resuspend in 1 ml of culture medium. 3. Seed cells into a 25 cm² flask containing 10 ml of culture medium. 4. Incubate at 37°C in 5% CO₂ for 24 hours. 5. Check cell morphology and confluency. 6. Subculture cells when they reach 70-80% confluency. 7. Seed cells into a new flask. 8. Repeat steps 1-6.
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Incubation Atmosphere 37°C, 5%_{CO2}, humidified air

Flask Coating none

Freezing Procedure After seeding, cells are grown to confluence. Cells are then trypsinized and resuspended in freezing medium. The suspension is then aliquoted into 1 ml vials and frozen at -78°C.

Shipping Conditions Cells are shipped in dry ice at -78°C.

Storage Conditions Cells are stored at -150 to -196 °C in liquid nitrogen. Cells are stored in 1 ml vials.

Cell Line Characteristics

Sterility

Cells are tested for mycoplasma contamination using PCR. Cells are also tested for mycoplasma contamination using a mycoplasma detection kit. Cells are found to be free of mycoplasma contamination.