

Data Sheet

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BCRJ Code: 0188

Cell Line: NCTC clone 929 [L cell, L-929, derivative of Strain L]

Species: Mus musculus

Vulgar Name: Mouse; C3H/An

Tissue: Subcutaneous Connective Tissue; Areolar And Adipose

Cell Type: Connective Tissue Fibroblast

Morphology: **Fibroblast**

Disease: Normal

Growth Properties: Adherent

Male Sex:

Age/Ethinicity: 100 Day /

tissue of a 100-day-old male C3H/An mouse. NCTC clone 929 (Connective tissue, mouse) Clone of strain L was derived in March, 1948. Strain L was one of the first **Derivation:** cell strains to be established in continuous culture, and clone 929 was the first cloned strain developed. Clone 929 was established (by the capillary technique for

single cell isolation) from the 95th subculture generation of the parent strain.

The parent L strain was derived from normal subcutaneous areolar and adipose

This cell line can be used for toxicity testing. This cell line is a suitable transfection **Applications:**

host.

Vesicular stomatitis, Glasgow (Indiana) Vesicular stomatitis, Orsay (Indiana) **Virus Succeptility::**

Encephalomyocarditis virus

Virus Resistance:: poliovirus 1, 2, 3; coxsackievirus B5; polyomavirus









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Tumor Formation:: Yes, in immunosuppressed mice

Biosafety: 1

Culture Medium:

Dulbecco's Modified Eagle's Medium (DMEM) with 1% non-essential amino acids, 2 mM L-glutamine, 1.0 g/L glucose and 10% of fetal bovine serum, 10%.

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Volumes used in this protocol are for 75 cm2 flask; proportionally reduce or

increase amount of dissociation medium for culture vessels of other sizes.

Remove and discard culture medium. Briefly rinse the cell layer with PBS without calcium and magnesium to remove all traces of serum which contains trypsin inhibitor. Add 2.0 to 3.0 mL of Trypsin-EDTA solution to flask and observe cells

under an inverted microscope until cell layer is dispersed (usually within 5 to 15 minutes). Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37°C to facilitate dispersal. Add 6.0 to 8.0 mL of complete growth

medium and aspirate cells by gently pipetting. Add appropriate aliquots of the cell suspension to new culture vessels. Incubate cultures at 37°C. NOTE: For more information on enzymatic dissociation and subculturing of cell lines consult Chapter 12 in Culture of Animal Cells, a manual of Basic Technique by R. Ian

Freshney, 6th edition, published by Alan R. Liss, N.Y., 2010.

Subculturing Medium

Renewal:

1 to 2 times per week

Subculturing

Subculturing:

Subcultivation Ratio:

1:2 to 1:8

Culture Conditions: Atmosphere: air, 95%; carbon dioxide (CO2), 5% Temperature: 37°C

Cryopreservation: 95% FBS + 5% DMSO (Dimethyl sulfoxide)



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Thawing Frozen Cells:

SAFETY PRECAUTION: Is highly recommend that protective gloves and clothing always be used and a full face mask always be worn when handling frozen vials. It is important to note that some vials leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vessel exploding or blowing off its cap with dangerous force creating flying debris. 1. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the Oring and cap out of the water. Thawing should be rapid (approximately 2 minutes). 2. Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions. 3. For cells that are sensitive to DMSO is recommended that the cryoprotective agent be removed immediately. Transfer the vial contents to a centrifuge tube containing 9.0 mL complete culture medium and spin at approximately 125 x g for 5 to 7 minutes. 4.Discard the supernatant and Resuspend cell pellet with the recommended complete medium (see the specific batch information for the culture recommended dilution ratio). 5. Incubate the culture in a appropriate atmosphere and temperature (see "Culture Conditions" for this cell line). NOTE: It is important to avoid excessive alkalinity of the medium during recovery of the cells. It is suggested that, prior to the addition of the vial contents, the culture vessel containing the growth medium be placed into the incubator for at least 15 minutes to allow the medium to reach its normal pH (7.0 to 7.6).





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Kazazian HH Jr., et al. Restriction site polymorphism in the phosphoglycerate

References:

Depositors: Banco de Células do Rio de Janeiro

PubMed: 13587550

ATCC: CCL-1