

## Banco de Células do Rio de Janeiro

## **Data Sheet**

**PAGE 1/2** 

**BCRJ Code:** 0215

Cell Line: **S17** 

**Species:** Mus musculus

**Vulgar Name:** Mouse; Balb/C

Tissue: **Bone Marrow** 

Morphology: **Fibroblast** 

Disease: Normal

**Growth Properties:** Adherent

**Biosafety:** 1

This cell line can support myelopoiesis and B lymphopoiesis under Dexter **Addtional Info:** 

conditions upon seeding with nylon wool-passed bone marrow.

Dulbecco's Modified Eagle's Medium (DMEM) modified to contain 2 mM L-**Culture Medium:** glutamine, 4500 mg/L glucose, 1 mM sodium pyruvate with 10% of fetal

bovine serum.

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

sizes. Remove medium, and rinse with PBS without calcium and magnesium. Remove the solution and add an additional 1 to 2 mL of trypsin-EDTA solution. Allow the flask to sit at room temperature (or at 37°C) until the cells detach. Add fresh culture medium, aspirate and

or increase amount of dissociation medium for culture vessels of other

dispense into new culture flasks. 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:

**Subculturing:** 

Every 2 to 3 days









## Banco de Células do Rio de Janeiro

Data Sheet

**PAGE 2/2** 

**Culture Conditions:** 

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

**Cryopreservation:** 

95% FBS + 5% DMSO (Dimethyl sulfoxide)

SAFETY PRECAUTION: It is strongly recommended to always wear protective gloves, clothing, and a full-face mask when handling frozen vials. Some vials may leak when submerged in liquid nitrogen, allowing nitrogen to slowly enter the vial. Upon thawing, the conversion of liquid nitrogen back to its gas phase may cause the vial to explode or eject its cap with significant force, creating flying debris.

- 1. Thaw the vial by gently agitating it in a 37°C water bath. To minimize contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 minutes).
- 2. Remove the vial from the water bath as soon as its contents are thawed and decontaminate it by dipping in or spraying with 70% ethanol. From this point, all operations must be performed under strict aseptic conditions.

**Thawing Frozen Cells:** 

- 3. For cells sensitive to DMSO, it is recommended to remove the cryoprotective agent immediately. Transfer the vial contents to a centrifuge tube containing 9.0 mL of complete culture medium and centrifuge at approximately 125 × g for 5 to 7 minutes.
- 4. Discard the supernatant and resuspend the cell pellet in the recommended complete medium (see specific batch information for the appropriate dilution ratio).
- 5. Incubate the culture under appropriate atmospheric and temperature conditions (see "Culture Conditions" for this cell line).

NOTE: It is important to avoid excessive alkalinity of the medium during cell recovery. To minimize this risk, it is recommended to place the culture vessel containing the growth medium in the incubator for at least 15 minutes before adding the vial contents. This allows the medium to stabilize at its normal pH (7.0 to 7.6).

References:

J. Immunol. 138: 1082-1087; 1987

**Depositors:** 

Paul W. Kincade, Oklahoma Medical Research Foundation, Oklahoma City, USA.

**Cellosaurus:** 

CVCL E226

@bcrj\_apabcam

