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BCRJ Code: 0277

Cell Line: BL3.1

Species: Bos taurus

Vulgar Name: Cow, Bovine

Cell Type: B Lymphocyte

Morphology: Lymphoblast

Disease: Lymphosarcoma

Growth Properties: Suspension

Sex: Male

Age/Ethinicity: 3 Month /

BL3.1 is a B-lymphosarcoma cell line derived in 1990 by irradiation of the **Derivation:** bovine B-lymphoblastoid cell line, BL-3. The BL-3 cell line was isolated from a

3-month-old male Hereford calf.

Applications: They can be used in BLV and retroviral studies and as a target for NK assays

Products: BOVINE LEUKEMIA VIRUS (BLV)

Biosafety: 1

BL3.1 cells are a major histocompatibility complex (MHC) transcriptional loss variant; the cells exhibit no expression of MHC class I and high expression of **Addtional Info:** MHC class II. Few cell lines express only MHC class II. The cell line is positive

for bovine leukemia virus (BLV) and actively produces BLV.

RPMI-1640 medium modified to contain 2 mM L-glutamine, 4500 mg/L **Culture Medium:**

glucose with 10% of fetal bovine serum.







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Subculturing:

Cultures can be maintained by addition of fresh medium or replacement of medium. Alternatively, cultures can be established by centrifugation with subsequent resuspension in fresh medium at 5 x 10 exp5 viable cells/ml. Maintain cultures at cell concentrations between 5 X 10 exp5 and 2 X 10 exp6 viable cells/ml.

Subculturing Medium Renewal:

2 to 3 times a week

Culture Conditions:

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

Cryopreservation:

95% FBS + 5% DMSO (Dimethyl sulfoxide)

Thawing Frozen Cells:

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).

SAFETY PRECAUTION: Is highly recommend that protective gloves and clothing

References:

Harms JS, Splitter GA. Impairment of MHC class I transcription in a mutant bovine B cell line. Immunogenetics 35: 1-8, 1992.

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ATCC: CRL-2306

Cellosaurus: CVCL 3455



