



Product Sheet

SML, clone 4D8 (ATCC® CRL-2311™)

Please read this FIRST



Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

Complete Growth Medium

The base medium for this cell line is ATCC-formulated RPMI-1640 Medium, ATCC [30-2001](#). To make the complete growth medium, add the following components to the base medium: fetal bovine serum (ATCC [30-2020](#)) to a final concentration of 10%.

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: SML, clone 4D8 (ATCC® CRL-2311™)

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Or contact your local distributor

Description

Organism: *Saimiri boliviensis boliviensis*, monkey, bolivian squirrel

Cell Type: B lymphoblast; Epstein-Barr virus (EBV) transforme

Gender: male

Morphology: lymphoblast

Growth Properties: The cells grow in loose clumps., suspension

Cytogenetic Analysis: The SML, clone 4D8 cells exhibit a karyotype consistent with the subspecies *Saimiri boliviensis boliviensis*; the chromosomal count was 44 with an XY sex chromosome constitution., G-banding revealed a pattern of the Bolivian karyomorph for the subspecies *Saimiri boliviensis boliviensis* with a submetacentric chromosomal pair 15 and an acrocentric chromosomal pair 16 resulting in six pairs of autosomal acrocentric chromosomes., The karyotype was heterozygous for the C-band polymorphism in the short arm of chromosome 14 and lacked the chromosome 5 C-band positive polymorphism found in Guyanese animals, *Saimiri sciureus sciureus*.

Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

SAFETY PRECAUTION

ATCC highly recommends 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.

Unpacking & Storage Instructions

1. Check all containers for leakage or breakage.
2. Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130°C, preferably in liquid nitrogen vapor, until ready for use.

Handling Procedure for Frozen Cells

Handling Procedure for Frozen Cells

To insure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70°C. Storage at -70°C will result in loss of viability.

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1. Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of 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 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. Transfer the vial contents to a centrifuge tube containing 9.0 ml complete culture medium and spin at approximately 125 xg for 5 to 7 minutes. Discard supernatant.
4. Resuspend the cell pellet with the recommended complete medium and dispense into a 25 cm² culture flask. 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 complete 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).
5. Incubate the culture at 37°C in a suitable incubator. A 5% CO₂ in air atmosphere is recommended if using the medium described on this product sheet.

Subculturing Procedure

Medium Renewal: Every 2 to 3 days

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⁽⁵⁾ viable cells/ml. Maintain cultures at cell concentrations between 5 x 10⁽⁵⁾ and 2 x 10⁽⁶⁾ viable cells/ml.



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Cryopreservation Medium

Cryoprotectant Medium

Complete growth medium described above supplemented with 5% (v/v) DMSO.
Cell culture tested DMSO is available as ATCC® Catalog No. 4-X.



Comments

SML, clone 4D8 is a B lymphocyte cell line established in 1995 by transformation of mononuclear cells from a male squirrel monkey with Epstein-Barr virus derived from B95-8 cells (ATCC CRL-1612). The resulting cells were cloned by limiting dilution.
CITES Permit



References

References and other information relating to this product are available online at www.atcc.org.



Biosafety Level: 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

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Additional information on this culture is available on the ATCC web site at www.atcc.org.
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