ATCC

Product Sheet

B-lymphocytes and myeloma hybridoma SWLA1
(HB-12559)

Please read this FIRST

Biosafety Level
1

Intended Use

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

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U.S. Patent Number:
6,231,857

Technical Information

ATCC Technical Services does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found on the international or U.S. patent office websites.

Product Description

Designation: B-lymphocytes and myeloma hybridoma SWLA1
Organism: *Mus musculus* (B cell); *Mus musculus* (myeloma)
, mouse (B cell); mouse (myeloma)
Strain:
Strain: BALB/c (B cell); BALB/c (myeloma)
Isotype: IgG2a; kappa light chain
Cell Type: hybridoma: B lymphocyte
Morphology: lymphoblast
Growth Properties: suspension

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. It is recommended that the cryoprotective agent be removed immediately. Centrifuge the cell

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suspension at approximately 125 xg for 5 to 10 minutes. Discard the supernatant and resuspend the cell pellet in an appropriate amount of fresh growth medium.

4. Transfer the vial contents to an appropriate size vessel. 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).

5. Incubate the culture at 37°C in a suitable incubator. A 5% CO_2 in air atmosphere is recommended if using the medium described on this product sheet.

Handling Procedure for Flask Cultures

Handling Procedure for Flask Cultures (Suspension)

The flask was seeded with cells (see specific batch information), grown, and completely filled with medium at ATCC to prevent loss of cells during shipping.

1. Upon receipt visually examine the culture for macroscopic evidence of any microbial contamination. Using an inverted microscope (preferably equipped with phase-contrast optics), carefully check for any evidence of microbial contamination

2. Incubate the flask in an upright position for several hours at 37°C. After the temperature has equilibrated, aseptically remove the entire contents of the flask and centrifuge at 125 xg for 5 to 10 minutes. Remove shipping medium and save for reuse. Resuspend the cell pellet in 10 mL of this medium.

3. From this cell suspension remove a sample for a cell count and viability. Adjust the cell density of the suspension to 2-5 x 10^5 viable cells/mL in the shipping medium.

4 Incubate the culture, horizontally, at 37°C in a 5% CO_2 in air atmosphere. Maintain the cell density of the culture as suggested under the subculture procedure.

Subculturing Procedure

Medium Renewal: Every 2 to 3 days
Cultures can be maintained by the addition of fresh medium or replacement of medium. Alternatively, cultures can be established by centrifugation with subsequent resuspension at 1 X 10 exp5 viable cells/ml.
Maintain cell density between 1 X 10 exp5 and 1 X 10 exp6 viable cells/ml.

Cryopreservation Medium

Cryoprotectant Medium

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

Comments

Animals were immunized with Streptococcus mutans Clarke (ATCC 25175).
Spleen cells were fused with NS-1-Ag4-1 myeloma cells.
The SWLA1 (ATCC HB-12559), SWLA2 (ATCC HB-12580), and SWLA3 (ATCC HB-12558) antibodies appear to recognize a species-specific lipooligosaccharide or lipopolysaccharide on the cell surface of S. mutans. These antibodies have substantially no reactivity with any of the following bacterial strains: Streptococcus rattus (ATCC 19645, Streptococcus gordonii (ATCC 10558), Streptococcus gordonii (ATCC 13396), Streptococcus mitis (ATCC 49456).
Also Streptococcus sobrinus (ATCC 33478), Streptococcus sobrinus 6715, Streptococcus sanguis (ATCC 10556), Streptococcus sanguis (ATCC 49295), Streptococcus anginosus (ATCC 33397), Lactobacillus acidophilus (ATCC 4356), Lactobacillus casei (ATCC 4646),
Actinobacillus actinomycetemcomitans (ATCC 33384), Porphyromonas gingivalis (ATCC 33277), Prevotella intermedia (ATCC 49046), Bacteroides forsythus (ATCC 43047), Eikenella corrodens (ATCC 23834), Fusobacterium nucleatum (ATCC 25586),
Treponema denticola (ATCC 33520), Campylobacter rectus (ATCC 33238), Myxococcus xanthus DZ2, and Escherichia coli HB101.
These antibodies can be used in the clinical diagnosis and treatment of dental caries in humans.

Propagation

Complete Growth Medium

HL-1 medium supplemented with 4 mM L-glutamine, 1 mM sodium pyruvate and 10% fetal bovine serum. HL-1 medium can be obtained from from Lonza (catalog number 77201).

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References

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

Biosafety Level: 1

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 may be available on the ATCC web site at www.atcc.org.

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