Product Sheet
NAMALWA (ATCC® CRL-1432™)

Please read this FIRST

Storage Temp.
liquid nitrogen vapor phase

Biosafety Level
2

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
RPMI 1640 medium with 2 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate, 4.5 g/L glucose, 10 mM HEPES, and 1.0 mM sodium pyruvate, 92.5%; fetal bovine serum, 7.5%

DNA Profile:
Amelogenin: X
CSF1PO: 10:11
D13S317: 11:12
D16S539: 9
D5S818: 12:13
D7S820: 11
TH01: 7:9:3
TPOX: 6:11
vWA: 14

Cytogenetic Analysis: This is a human cell line with the hypodiploid chromosome count. The modal chromosome number was 44, occurring in 30% of cells. The rate of cells with higher ploidies was 2.8%. Twelve to 14 marker chromosomes were common to most cells. Among these were ins(1p)(q11:?), ins(3p)(q11q29), del(3p)(p12/p13), der(6)t(3;6p21;p25), t(15q21q) and seven to nine others. Normal N3 was absent, and N7 had three copies per cell. The X chromosome was single. There was no Y chromosome.

Citation of Strain
If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: NAMALWA (ATCC® CRL-1432™)

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

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
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.

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 75 cm² tissue culture flask and dilute with the recommended complete culture medium (see the specific batch information for the recommended dilution ratio). 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).
4. 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.
5. It is not necessary to remove the cryoprotective agent. If it is desired that the cryoprotective agent be removed immediately, or that a more concentrated cell suspension be obtained, centrifuge the cell suspension at approximately 125 x g for 5 to 10 minutes. Discard the supernatant and resuspend the cells with fresh growth medium at the dilution ratio recommended in the specific batch information.

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org
800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org
Or contact your local distributor
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Handling Procedure for Flask Cultures

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 x g 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 5 x 10^6 viable cells/mL in the shipping medium.

4. Incubate the culture, horizontally, at 37°C in a 5% CO2 in air atmosphere. Maintain the cell density of the culture as suggested under the subculture procedure.

Subculturing Procedure

Cultures can be maintained by addition or replacement of fresh medium. Cultures should be started at 5 x 10^5 viable cells/mL and subcultured at 2 x 10^6 cells/mL.

Medium Renewal: Add fresh medium (20% to 30% by volume) every 2 to 3 days

Cryopreservation Medium

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

Comments

The cells contain the Epstein-Barr virus (EBV) genome.

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.

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