BM-N

CRL-8910™

Description

Organism: *Bombyx mori*, silkworm
Growth properties: Mixed: adherent and suspension
Patent depository: This material was deposited with the ATCC Patent Depository to fulfill U.S. or international patent requirements. This material may not have been produced or characterized by ATCC. As an International Depository Authority (IDA) for patent deposits, ATCC is required to complete viability testing only at time of initial deposit of patent material. Patent deposits are made available on behalf of the Depositor when the pertinent U.S. or international patent is issued, but material may not be used to infringe the patent claims.
Patent number:
5,110,729
Technical information: ATCC Product Experience does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found in the corresponding patent available from the patent holder or with the U.S. and/or international patent office.

Storage Conditions

Product format: Frozen

Intended Use

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

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may 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 vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Temperature: 27°C

Handling Procedures

Unpacking and 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.

Complete medium: The base medium for this cell line is IPL-41 Insect Cell Culture Medium with glutamine (available from Sigma or Gibco). To make the complete growth medium, add the following components to the base medium:

- 2.6 g/L Tryptose Phosphate Broth (TPB)
- 0.069 mg/L $ZnSO_4 \cdot 7H_2O$
- 3.86 mg/L $AlCl_3 \cdot 6H_2O$
- 5 mg/L chlorophenol red
- 2g/L NaCl
- 10% heat-inactivated insect grade fetal bovine serum

Adjust pH to 6.3 to 6.4 by adding 1N NaOH
Adjust osmolarity to 317 to 360 by adding extra NaCl

The IPL-41 medium formulation was devised for use in a free gas exchange with atmospheric air. A CO_2 and air mixture is detrimental to cells when using this medium for cultivation. (In Vitro 17: 495-509, 1981)

- **Handling Procedure:**

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.

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.

1. Thaw the vial by gentle agitation in a **27°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 growth medium and spin at approximately 125 x g for 5 to 7 minutes.

4. Discard the supernatant and resuspend the cell pellet in an appropriate amount of fresh growth medium.

5. Transfer the vial contents to an appropriate size vessel.

Incubate the culture at **27°C** in a suitable incubator. The IPL-41 medium formulation was devised for use in a **free gas exchange with atmospheric air**. A CO_2 and air mixture is detrimental to cells when using this medium for cultivation.

- **Subculturing procedure:**
  Medium Renewal: Once per week
  Gently resuspend attached cells in old culture medium by pipetting old medium across the cells on the floor of the flask.
- **Reagents for cryopreservation:** Complete growth medium supplemented with 10% (v/v) DMSO (ATCC 4-X)

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: BM-N (ATCC CRL-8910)

References

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

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