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 recommended medium for this cell line is Gibco DMEM (Cat#12100-061; reconstitute in cell culture grade water and supplement with 1.5g/L sodium bicarbonate) and 10% Fetal Bovine Serum (FBS; ATCC 30-2020).

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: N1E-115 (ATCC® CRL-2263™)
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Subculturing Procedure

1. Remove medium, rinse with Modified Puck’s Saline D1 solution:
   a. Glucose 5.5 mM
   b. KCl 5.4 mM
   c. Sucrose 58.4 mM
   d. Na₂HPO₄·7H₂O 0.17 mM
   e. NaCl 138 mM
   f. KH₂PO₄ 0.22 mM
   Adjusted to a pH of 7.4±0.05 with 0.1 N NaOH or 0.1 HCl. Adjusted to an osmolality of 340±5 mosM with either sucrose or H₂O to decrease or increase the osmolality.

2. Allow flasks to remain at room temperature until cells detach.

3. To remove saline, add fresh culture medium, transfer cell suspension to centrifuge tube and spin at approximately 125 x for 5 to 10 minutes.

4. Discard supernatant and resuspend cells in fresh growth medium. Add appropriate aliquots of cell suspension to new culture vessels.

5. Place culture vessels in incubators at 37°C

Subcultivation Ratio: A subcultivation ratio of 1:2 to 1:3 is recommended.

Medium Renewal: Every 2 to 3 days.

Note: If DMEM formulation contain 1.5 g/L sodium bicarbonate.

Cryopreservation 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

The clone N1E was subcloned by isolation of single cells on glass shards.
The adrenergic clone N1E-115 exhibits high levels of activity of the enzymes tyrosine hydroxylase and acetylcholinesterase which are necessary for neurotransmitter synthesis but are almost devoid of choline acetyltransferase. These cells contain 14 receptors for neurotransmitters.

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.

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

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