NEUROMICS

LN-319 Cells

Catalog #: LN001

Cell #: >5x10^5 cells

Storage: Liquid Nitrogen until ready for culture.
While Culturing keep in 37°C CO_2 incubator

Product Format: Frozen Vial

GENERAL INFORMATION

LN-319 cells are human brain epithelial cancer cells. LN-319 were derived from a left malignant glioma of a 69 year old Caucasian male with anaplastic astrocytoma grade III. It is recommended to culture these cells following the protocols described below. LN-319 cells have a minimum of 40 population doubling levels when cultured using our protocol.

Product is for Research use only.

Frozen Vials are shipped in a Dry Ice Package.

STATEMENT

Handling human tissue derived products is potentially bio-hazardous, despite testing negative for HIV, HBV, and HCV DNA. Nonetheless, proper precautions must be taken to avoid inadvertent exposure.

SPECIAL NOTES:

- We strongly advise our customers to use medium and related products recommended by Neuromics, because our cells were grown and adapted using our products.
- The growth featured of our cells cannot be guaranteed if the specific growth mediums stated in our datasheets are not used.
- Due to the sensitive nature of primary cells and cell lines, all quality related issues about the cells must be reported back to us within one month after receiving the products. Cells will not be replaced after the one-month period.

CHARACTERIZATION OF THE CELLS

1. Cytoplasmic VWF/Factor VIII >95% positive by immunofluorescence

2. Cytoplasmic uptake of Di-I-Ac-LDL >95% positive by immunofluorescence

3. Cytoplasmic PECAM1 >95% positive by immunofluorescence

HANDLING OF ARRIVING CELLS

When you receive the dry ice package with cells in frozen vials, transfer the frozen vials of cells into a -80ºC freezer for short period storage or a liquid nitrogen tank for long-term storage.

STR PROFILE

www.neuromics.com

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Markers:	
Amelogenin	X,Y
CSF1PO	10
D3S1358	16, 17
D5S818	11
D7S820	9
D8S1179	12
D13S317	12
D16S539	11, 12
D18S51	14, 19
D21S11	30, 31
FGA	19, 26
Penta D	9, 13
Penta E	15, 17

PROTOCOL FOR THAWING THE CELLS AND SUBCULTURE

Note: If you have any questions or need clarification regarding the protocol for culturing these cells, please reach out to Dr. Jensen Auguste at (978) 608-1766 with your questions before beginning.

1. Pre-coating of T25 flasks-Add 2 ml of Alphabiocoat (AC001) into a T25 flask to cover the whole surface of the flask. 5 minutes later, remove excessive coating solution by aspiration. Add 5 ml of neutralization solution (NS001) to the flask. Dispose the excessive neutralization solution by aspiration and the is ready for use.

2. Thaw the frozen cell vial in a 37ºC water bath first, and then transfer the cells into the pre-coated T25 flask with 10 ml of LN-319 Growth Medium (CCM001), cells usually become confluent with 1-2 days and ready to be passaged.

3. To passage the cells, rinse the cells in a T25 flask with 5 ml HBSS (RT) twice; then add 2 ml Universal Detachment Solution (RT) (AD002) into one T25 flask; gently dispose the excessive Universal Detachment Solution within 20 seconds by aspiration.

4. Leave the T25 flask with the cells at RT or 37ºC for 1 min. (Most cells usually will detach from the surface within 1-2 mins.) Otherwise, monitor the cells under a microscope until most of cells become rounded up, and then gently tap the flask against the bench surface, and the cells will move on the surface of the flask.

5. Add 5 ml Universal Neutralization Buffer (NB001) and spin down the cells with 800g centrifugation for 5 mins.

6. Re-suspend the cell pellet with 10 or 15 ml medium and transfer 5 ml each into 2 or 3 pre-coated T25 flasks (for 1/2 to 1/3 subculture ratio).

7. Change medium every 2 or 3 days and the cells usually become confluent within 7 days (when split at a 1/3 ratio).

8. To prepare quiescent cells, when cells are nearly confluent, replace with LN-319 Basal Medium (CCM002) containing 2% FBS for about 8-12hrs.

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