



CATH.a

CRL-3595™

Description

CATH.a is a neuron cell line that was isolated from the brain of a transgenic mouse. This cell line can be used in neuroscience and toxicology research. This product is an ATCC manufactured and accessioned progeny of CRL-11179 cited in US Pat. No. US 5,591,626.

Organism: *Mus musculus*, mouse

Cell Type: neuron

Tissue: Brain

Growth properties: Mixed: adherent and suspension

Storage Conditions

Product format: Frozen

Storage conditions: Vapor phase of liquid nitrogen

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 2

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.

Cells contain SV40 sequences

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: 37°C

Atmosphere: 95% Air, 5% CO₂

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 RPMI-1640 Medium (ATCC 30-2001). To make the complete medium add the following components to the base medium (88% final concentration):

- Horse Serum (ATCC 30-2040), for an 8% final concentration
- Fetal Bovine Serum (FBS; ATCC 30-2020), for a 4% final concentration

Handling Procedure:

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. It is recommended that the cryoprotective agent be removed immediately. Centrifuge the cell suspension at approximately $125 \times g$ 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.

Subculturing procedure:

Cultures are a mixture of adherent and suspended cells. Collect the floating cells and transfer to new flasks. Dissociate the attached cells using 0.12% trypsin without

EDTA. Remove Trypsin by neutralization and gentle centrifugation followed by resuspension in complete growth medium and add to the suspension cell population.

Subcultivation Ratio: A subcultivation ratio of 1:4 is recommended

Reagents for cryopreservation: 85% RPMI-1640 (ATCC 30-2001) + 10% FBS (ATCC 30-2020) + 5% DMSO (ATCC 4-X)

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: CATH.a (ATCC CRL-3595)

References

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

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