

Microglial Cell Line Derived from Wild Type Mice

Catalog No. NR-9460

This reagent is the property of the U.S. Government.

Product Description: The murine microglial cell line, NR-9460, was derived using brain tissue from wild type mice. The microglial cells were immortalized by infection with the ecotropic transforming replication-deficient retrovirus J2 using techniques described in the literature. Characterization based on immunofluorescence, stimulation assays and flow cytometry demonstrated that the immortalized cell line retains its microglial-specific morphological, functional and surface expression properties.

Lot: 70016129

Manufacturing Date: 20JUN2018

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
Morphology by Immunofluorescence¹	Microglial	Microglial
Surface Marker Expression by Flow Cytometry Using Specific Antibodies¹ CD11b F4/80 MHCII GFAP (astrocyte marker)	Characteristic of microglial cells Positive Positive Positive Negative	Characteristic of microglial cells Positive Positive Positive Negative
Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene	Murine origin No evidence of another species	Murine origin No evidence of another species
Total Cell Count	> 1.0 x 10 ⁶ cells per vial	5.3 x 10 ⁶ cells per vial
Post-Freeze Viability	≥ 50%	86.1%
Sterility (21-day incubation) Harpo's HTYE broth ² , 37°C and 26°C, aerobic Trypticase soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Blood agar, 37°C, aerobic Blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO ₂	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
Mycoplasma Contamination Hoechst DNA stain Agar and broth culture (14-day incubation at 37°C) DNA Detection by PCR of Test Article nucleic acid	None detected None detected None detected	None detected None detected None detected

¹Performed on immortalized cell line prior to growth of this distribution lot.

²Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

/Heather Couch/
Heather Couch

18 SEP 2018

Program Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

