

## Microglial Cell Line Derived from TRIF Knockout Mice

### Catalog No. NR-15638

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### Product Description:

The murine microglial cell line, NR-15638 was derived from primary bone marrow cells from TRIF (toll-interleukin-1 receptor domain-containing adaptor-inducing interferon- $\beta$ ) knockout mice. The primary bone marrow cells were immortalized by infection with the ecotropic transforming replication-deficient retrovirus J2 using techniques described in the literature.

**Lot: 70066612**

**Manufacturing Date: 22FEB2024**

TEST	SPECIFICATIONS	RESULTS
<b>Growth Properties</b>	Adherent	Adherent
<b>Morphology</b>	Microglial	Microglial
<b>Confirmation of Knockout Phenotype by Indirect Fluorescent Antibody Assay</b> TRIF/TICAM <sup>1</sup> IRF7 <sup>2</sup> TLR9 <sup>3</sup>	No fluorescence observed Fluorescence observed Fluorescence observed	No fluorescence observed Fluorescence observed Fluorescence observed
<b>Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene</b>	Murine origin No evidence of another species	Murine origin No evidence of another species
<b>Total Cell Count</b>	$> 1 \times 10^6$ cells/vial	$3.95 \times 10^6$ cells/vial
<b>Post-Freeze Viability</b>	$\geq 50\%$	68.7%
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>4</sup> Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO <sub>2</sub>	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
<b>Mycoplasma Contamination</b> Hoechst DNA stain Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected None detected	None detected None detected None detected

<sup>1</sup>Using TRIF/TICAM1 Antibody (Novus Biologicals NB120-13810)

<sup>2</sup>Using IRF7 Antibody (Novus Biologicals NBP1-77263)

<sup>3</sup>Using TLR9 Antibody (Novus Biologicals NBP1-76680)

<sup>4</sup>Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

/Sonia Bjorun Brower/

Sonia Bjorun Brower

03 JUL 2024

Technical Manager, ATCC Federal Solutions

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[www.beiresources.org](http://www.beiresources.org)

E-mail: [contact@beiresources.org](mailto:contact@beiresources.org)

Tel: 800-359-7370

Fax: 703-365-2898