

## Microglial Cell Line Derived from TLR7 Knockout Mice

### Catalog No. NR-19980

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### Product Description:

The murine microglial cell line was derived using brain tissue from toll-like receptor 7 (TLR7) knockout mice. The microglial cells were immortalized by infection with the ecotropic transforming replication-deficient retrovirus J2 using techniques described in the literature.

**Lot: 70051846**

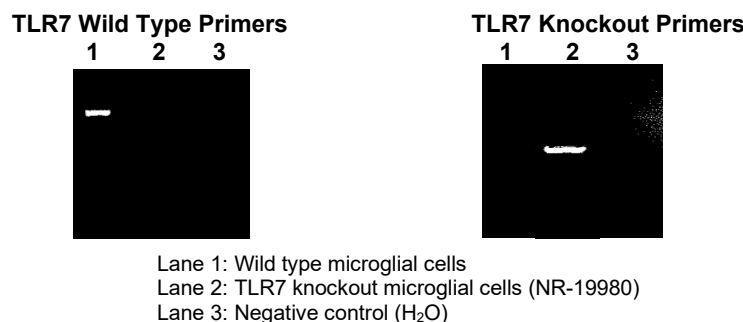
**Manufacturing Date: 23JUN2022**

TEST	SPECIFICATIONS	RESULTS
<b>Growth Properties</b>	Adherent	Adherent
<b>Morphology</b>	Microglial	Microglial
<b>PCR Amplification of Extracted DNA (Figure 1)<sup>1</sup></b> TLR7 wild type primers TLR7 knockout primers	No amplicon Expected amplicon	No amplicon Expected amplicon
<b>Stimulation of RANTES<sup>1</sup></b>	Report results	RANTES expression 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>	$> 1.0 \times 10^6$ cells per vial	$2.37 \times 10^6$ cells per vial
<b>Post-Freeze Viability</b>	$\geq 50\%$	93.3%
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>2</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>Test performed prior to deposit on seed material.

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

**Figure 1 – PCR Amplification**  
(Representative)



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17 NOV 2023

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