

**Microglial Cell Line Derived from TLR1 Knockout Mice**

**Catalog No. NR-19978**

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**Product Description:** This murine microglial cell line was derived using brain tissue from TLR1 knockout mice. The microglial cells were immortalized by infection with the ecotropic transforming replication-deficient retrovirus J2 using techniques described in the literature.

**Lot: 60523124**

**Manufacturing Date: 03MAY2012**

TEST	SPECIFICATIONS	RESULTS
<b>Growth Properties</b>	Adherent	Adherent
<b>PCR Amplification of Extracted DNA (Figure 1)</b> TLR1 wild type primers TLR1 knockout primers	No amplicon Expected amplicon	No amplicon Expected amplicon
<b>Stimulation of TNF-α</b>	Report results	See Figure 2
<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 x 10 <sup>6</sup> cells/vial	5.1 x 10 <sup>6</sup> cells/vial
<b>Post-Freeze Viability</b>	≥ 50%	90.1%
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>1</sup> , 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 <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 Test Article nucleic acid	None detected None detected None detected	None detected None detected None detected

<sup>1</sup>Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

**Date:** 12 FEB 2014

**Signature:** 

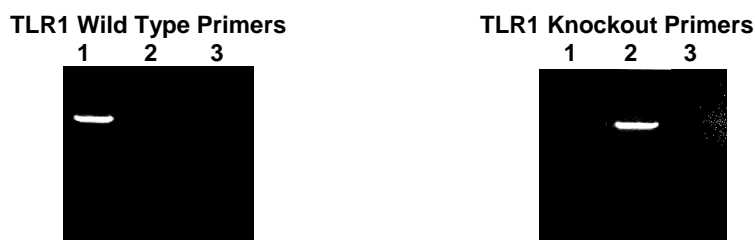
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Figure 1 – PCR Amplification



Lane 1: Wild type microglial cells  
 Lane 2: TLR1 knockout microglial cells (NR-19978)  
 Lane 3: Negative control (H<sub>2</sub>O)

Figure 2 – Stimulation of TNF-α

