

**Microglial Cell Line Derived from TLR2 Knockout Mice**

**Catalog No. NR-15641**

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**Product Description:** This murine microglial cell line was derived using brain tissue from TLR2 knockout mice. The microglial cells were immortalized by infection with the ecotropic transforming replication-deficient retrovirus J2 using techniques described in the literature.

**Lot: 59718159**

**Manufacturing Date: 02JUN2011**

TEST	SPECIFICATIONS	RESULTS
<b>Growth Properties</b>	Adherent	Adherent
<b>PCR Amplification of Extracted DNA (Figure 1)</b> TLR2 wild type primers TLR2 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	4.1 x 10 <sup>6</sup> cells/vial
<b>Post-Freeze Viability</b>	≥ 50%	95.8%
<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 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:** 13 FEB 2014

**Signature:**



**Title:** Technical Manager, BEI Authentication or designee

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Figure 1 – PCR Amplification



Lane 1: Wild type microglial cells  
 Lane 2: TLR2 knockout microglial cells (NR-15641)  
 Lane 3: Negative control (H<sub>2</sub>O)

Figure 2 – Stimulation of TNF- $\alpha$

