

**Microglial Cell Line Derived from TLR7 Knockout Mice**

**Catalog No. NR-19980**

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**Product Description:** This murine microglial cell line was derived using brain tissue from 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: 60523126**

**Manufacturing Date: 06FEB2012**

| TEST   | SPECIFICATIONS   | RESULTS  |
|--|--|--|
| <b>Growth Properties</b>   | Adherent   | Adherent   |
| <b>PCR Amplification of Extracted DNA (Figure 1)</b><br>TLR7 wild type primers<br>TLR7 knockout primers  | No amplicon<br>Expected amplicon   | No amplicon<br>Expected amplicon   |
| <b>Stimulation of RANTES</b>   | Report results   | See Figure 2   |
| <b>Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene</b>  | Murine origin<br>No evidence of another species  | Murine origin<br>No evidence of another species  |
| <b>Total Cell Count</b>  | > 1.0 x 10 <sup>6</sup> cells/vial   | 5.3 x 10 <sup>6</sup> cells/vial   |
| <b>Post-Freeze Viability</b>   | ≥ 50%  | 83.3%  |
| <b>Sterility (21-day incubation)</b><br>Harpo's HTYE broth <sup>1</sup> , 37°C and 26°C, aerobic<br>Trypticase soy broth, 37°C and 26°C, aerobic<br>Sabouraud broth, 37°C and 26°C, aerobic<br>Blood agar, 37°C, aerobic<br>Blood agar, 37°C, anaerobic<br>Thioglycollate broth, 37°C, anaerobic<br>DMEM with 10% FBS, 37°C and 5% CO <sub>2</sub> | No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth | No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth<br>No growth |
| <b>Mycoplasma Contamination</b><br>Hoechst DNA stain<br>Agar and broth culture (14-day incubation at 37°C)<br>DNA Detection by PCR of Test Article nucleic acid  | None detected<br>None detected<br>None detected  | None detected<br>None detected<br>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:**



**Title:**

Technical Manager, BEI Authentication or designee

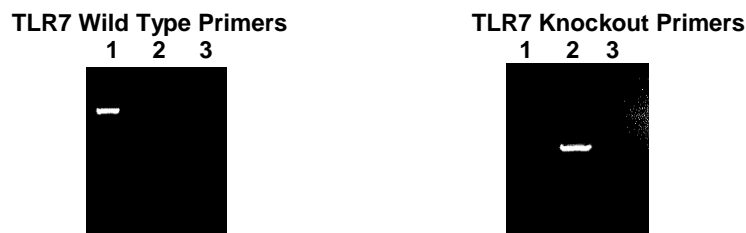
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Figure 1 – PCR Amplification



Lane 1: Wild type microglial cells  
 Lane 2: TLR7 knockout microglial cells (NR-19980)  
 Lane 3: Negative control (H<sub>2</sub>O)

Figure 2 – Stimulation of RANTES

