

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

**Catalog No. NR-19977**

This reagent is the property of the U.S. Government.

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

**Lot: 70014858**

**Manufacturing Date: 04MAY2018**

TEST	SPECIFICATIONS	RESULTS
<b>Growth Properties</b>	Adherent	Adherent
<b>PCR Amplification of Extracted DNA<sup>1</sup></b> TLR1 wild type primers TLR1 knockout primers	No amplicon Expected amplicon	No amplicon (Figure 1) Expected amplicon (Figure 1)
<b>Stimulation of TNF-<math>\alpha</math><sup>1</sup></b>	Report results	Expected pattern for different ligands (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	2.8 x 10 <sup>6</sup> cells/vial
<b>Post-Freeze Viability</b>	≥ 50%	68.4%
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth <sup>2</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>Depositor data; not lot specific.

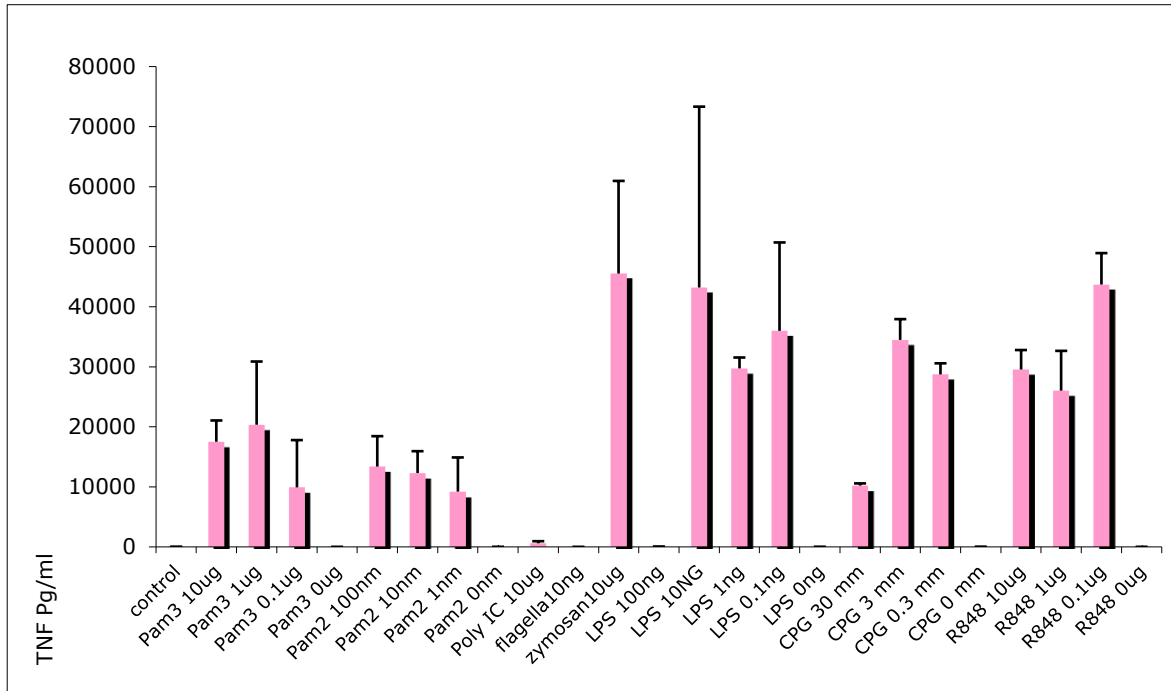
<sup>2</sup>Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

**Figure 1: PCR Amplification**



Lane 1: Wild type macrophages  
Lane 2: TLR1 knockout macrophages (NR-19977)  
Lane 3: Negative control (H<sub>2</sub>O)

Figure 2: Stimulation of TNF- $\alpha$



/Heather Couch/  
Heather Couch

06 AUG 2018

Program Manager or designee, ATCC Federal Solutions

ATCC<sup>®</sup>, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by ATCC<sup>®</sup> and the contributor to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC<sup>®</sup>'s knowledge.

ATCC<sup>®</sup> is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

