

Macrophage Cell Line Derived from TLR1 Knockout Mice

Catalog No. NR-19977

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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: 60523123

Manufacturing Date: 16APR2012

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
PCR Amplification of Extracted DNA (Figure 1) TLR1 wild type primers TLR1 knockout primers	No amplicon Expected amplicon	No amplicon Expected amplicon
Stimulation of TNF-α	Report results	See Figure 2
Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene	Murine origin No evidence of another species	Murine origin No evidence of another species
Total Cell Count	> 1.0 x 10 ⁶ cells/vial	9.8 x 10 ⁶ cells/vial
Post-Freeze Viability	≥ 50%	76.2%
Sterility (21-day incubation) Harpo's HTYE broth ¹ , 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 ₂	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
Mycoplasma Contamination 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

¹Atlas, 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 macrophages
 Lane 2: TLR1 knockout macrophages (NR-19977)
 Lane 3: Negative control (H₂O)

Figure 2 – Stimulation of TNF- α

