SUPPORTING INFECTIOUS DISEASE RESEARCH

Microglial Cell Line Derived from TLR2 Knockout Mice

Catalog No. NR-15641

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

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
Growth Properties	Adherent	Adherent
PCR Amplification of Extracted DNA (Figure 1)		
TLR2 wild type primers	No amplicon	No amplicon
TLR2 knockout primers	Expected 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	4.1 x 10 ⁶ cells/vial
Post-Freeze Viability	≥ 50%	95.8%
Sterility (21-day incubation)		
Harpo's HTYE broth ¹ , 37°C and 26°C, aerobic	No growth	No growth
Trypticase soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
Blood agar, 37°C, aerobic	No growth	No growth
Blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth
DMEM with 10% FBS, 37°C and 5% CO ₂	No growth	No growth
Mycoplasma Contamination		
Hoechst DNA stain	None detected	None detected
Agar and broth culture (14-day incubation at 37°C)	None detected	None detected
DNA Detection by PCR of Test Article nucleic acid	None detected	None detected

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:

crothy C. Young

Title:

Technical Manager, BEI Authentication or designee

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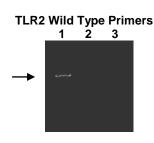
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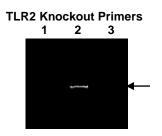
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Certificate of Analysis for NR-15641

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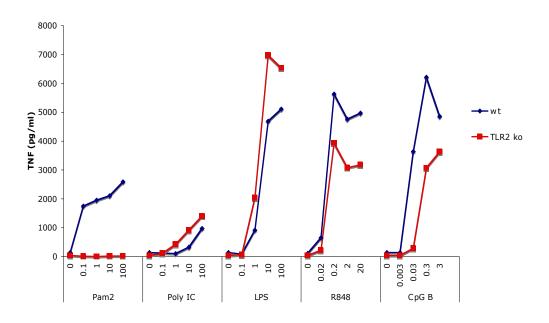
Figure 1 – PCR Amplification





Lane 1: Wild type microglial cells Lane 2: TLR2 knockout microglial cells (NR-15641) Lane 3: Negative control (H_2O)





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