SUPPORTING INFECTIOUS DISEASE RESEARCH

Macrophage Cell Line Derived from TLR4 Knockout Mice

Catalog No. NR-9458

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

Product Description: The murine macrophage cell line, NR-9458, was derived using primary bone marrow cells from TLR4 (toll-like receptor 4) knockout mice. The primary bone marrow cells were immortalized by infection with the ecotropic transforming replication-deficient retrovirus J2 using techniques described in the literature.

Lot: 70018417

Manufacturing Date: 04SEP2018

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
Morphology by Immunofluorescence ¹	Macrophage	Macrophage
Confirmation of Knockout Phenotype by Indirect Fluorescent Antibody Assay TLR4 ² TLR9 ³	No fluorescence observed Fluorescence observed	No fluorescence observed Fluorescence observed
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 × 10 ⁶ cells per vial	6.3 × 10 ⁶ cells per vial
Post-Freeze Viability	≥ 50%	78.0%
Sterility (21-day incubation) Harpo's HTYE broth ⁴ , 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

¹Performed on immortalized cell line prior to growth of this distribution lot.

²Using TLR4 Antibody (Calbiochem[®], AP1179)

³Using TLR9 Antibody (Novus Biological, NBP1-76680)

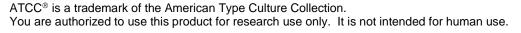
⁴Atlas, Ronald M. <u>Handbook of Microbiological Media</u>. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

/Heather Couch/

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