

Macrophage Cell Line Derived from TLR2/TLR4 Double Knockout Mice

Catalog No. NR-19975

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Product Description:

The murine macrophage cell line was derived using primary bone marrow cells from TLR2 (toll-like receptor 2)/TLR4 (toll-like receptor 4) double 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. Cells were grown in Dulbecco's Modified Eagle's Medium (ATCC® 30-2002™) containing 4 mM L-glutamine, 4500 mg/L glucose, 1 mM sodium pyruvate, and 1500 mg/L sodium bicarbonate and supplemented with 10% fetal bovine serum (ATCC® 30-2020™) at 37°C and 5% CO₂ for 13 days. Cells were refed with fresh media every 2 to 3 days between passages.

Lot: 70071627

Manufacturing Date: 07OCT2024

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
Morphology	Macrophage	Macrophage
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/vial	4.6 × 10 ⁶ cells/vial
Post-Freeze Viability	≥ 50%	82.3%
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ¹ Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep 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 extracted 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.

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