

Macrophage Cell Line Derived from TLR4 Knockout Mice

Catalog No. NR-9458

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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. Characterization based on immunofluorescence, stimulation assays and flow cytometry demonstrated that the immortalized cell line retains its macrophage-specific morphological, functional and surface expression properties.

Lot: 58035312

Manufacturing Date: 30JAN2008

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
Morphology by Immunofluorescence¹	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 X 10 ⁶ cells/vial	1.6 X 10 ⁶ cells/vial
Post-Freeze Viability	≥ 50%	87%
Sterility (BacT/ALERT[®] 3D Microbial Detection System) 14-day incubation of NR-9458: i NST culture bottle, 32°C, anaerobic i AST culture bottle, 32°C, aerobic	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.

Date: 06 MAR 2014

Signature: *Dorothy C. Young*

Title: Technical Manager, BEI Authentication or designee

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