

Macrophage Cell Line Derived from Wild Type Mice

Catalog No. NR-9456

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Product Description: The murine macrophage cell line, NR-9456, was derived using primary bone marrow cells from wild type 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: 70004140

Manufacturing Date: 04APR2017

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
Morphology by Immunofluorescence¹	Macrophage	Macrophage
Surface Marker Expression by Flow Cytometry Using Specific Antibodies¹ CD11b F4/80 CD45 CD80 CD86 CD14 MHC CD11c (dendritic cell marker) B220 (lymphocyte marker)	Characteristic of bone marrow-derived macrophages Positive Positive Positive Positive Positive Positive Positive Positive Negative Negative	Characteristic of bone marrow-derived macrophages CD11b+++ F4/80++ CD45+ CD80+ CD86+ CD14+ MHC++ CD11c- B220-
Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene	Murine origin No evidence of another species	Murine origin No evidence of another species
Cell Count	> 1.0 × 10 ⁶ cells/vial	5.5 × 10 ⁶ cells per vial
Post-Freeze Viability	≥ 50%	86.5%
Sterility (21-day incubation) Harpo's HTYE broth ² , 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 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.

²Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Certificate of Analysis for NR-9456

Date: 13 JUN 2017

Signature: 

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