

**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: 57981154**

**Manufacturing Date: 12NOV2007**

TEST	SPECIFICATIONS	RESULTS
<b>Growth Properties</b>	Adherent	Adherent
<b>Morphology by Immunofluorescence<sup>1</sup></b>	Macrophage	Macrophage
<b>Surface Marker Expression by Flow Cytometry Using Specific Antibodies<sup>1</sup></b> 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 Negative Negative	Characteristic of bone marrow-derived macrophages CD11b+++ F4/80++ CD45+ CD80+ CD86+ CD14+ MHC++ CD11c- B220-
<b>Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene</b>	Murine origin No evidence of another species	Murine origin No evidence of another species
<b>Cell Count</b>	> 1.0 X 10 <sup>6</sup> cells/vial	5.2 X 10 <sup>6</sup> cells/vial
<b>Post-Freeze Viability</b>	≥ 50%	80%
<b>Sterility (BacT/ALERT<sup>®</sup> 3D Microbial Detection System)</b> 14-day incubation of NR-9456: i NST culture bottle, 32°C, anaerobic i AST culture bottle, 32°C, aerobic	No growth No growth	No growth No growth
<b>Mycoplasma Contamination</b> 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

<sup>1</sup>Performed on immortalized cell line prior to growth of this distribution lot.

## Certificate of Analysis for NR-9456

**Date:** 06 MAR 2014

**Signature:** *Dorothy C. Young*

**Title:** Technical Manager, BEI Authentication or designee

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