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SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-15637

Macrophage Cell Line Derived from IRF3/IRF7 Double Knockout Mice

Catalog No. NR-15637

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

Product Description:

The murine macrophage cell line was derived using primary bone marrow cells from IRF3 (interferon regulatory factor 3)/IRF7 (interferon regulatory factor 7) 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.

Lot: 70062314 **Manufacturing Date: 07AUG2023**

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
Morphology	Macrophage	Macrophage
Confirmation of Knockout Phenotype by Indirect Fluorescent Antibody Assay		
IRF3[1]	No fluorescence observed	No fluorescence observed
IRF7[2]	No fluorescence observed	No fluorescence observed
TLR9[3]	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/vial	4.9×10^6 cells/vial
Post-Freeze Viability	≥ 50%	70.3%
Sterility (21-day incubation)		
Harpo's HTYE broth, 37°C and 26°C, aerobic[1]	No growth	No growth
Trypticase Soy broth, 37°C and 26°C, aerobic	No growth	No growth
Sabouraud broth, 37°C and 26°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, aerobic	No growth	No growth
Sheep blood agar, 37°C, anaerobic	No growth	No growth
Thioglycollate broth, 37°C, anaerobic	No growth	No growth
DMEM with 10% FBS, 37°C and 5% CO_2	No growth	No growth
Mycoplasma Contamination		
Hoechst DNA stain	None detected	None detected
Agar and broth culture (14-day incubation at 37°C)	None detected	None detected
DNA detection by PCR of extracted Test Article nucleic acid	None detected	None detected

[1]Using Phospho-IRF-3 pSer385 Antibody, (Thermo Scientific, PA5-38285)
[2]Using Anti-IRF7 Antibody, (Novus Biological, NBP1-77263)
[3]Using TLR9 Antibody (Novus Biological, NBP1-76680)
[4]Atlas, Ronald M. Handbook of Microbiological Media. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

/Sonia Bjorum Brower/
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ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

Support Provided by NIAID

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