SUPPORTING INFECTIOUS DISEASE RESEARCH

Microglial Cell Line Derived from TRIF/MyD88 Double Knockout Mice

Catalog No. NR-15640

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

Product Description: This murine microglial cell line was derived using brain tissue from TRIF/MyD88 double knockout mice. The microglial cells were immortalized by infection with the ecotropic transforming replication-deficient retrovirus J2 using techniques described in the literature.

Lot: 59718158

Manufacturing Date: 20MAY2011

| TEST | SPECIFICATIONS | RESULTS |
|--|---|---|
| Growth Properties | Adherent | Adherent |
| PCR Amplification of Extracted DNA (Figure 1) MyD88 wild type primers MyD88 knockout primers | No amplicon Expected amplicon | No amplicon Expected amplicon |
| 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 | 3.7 x 10 ⁶ cells/vial |
| Post-Freeze Viability | ≥ 50% | 84.7% |
| Sterility (21-day incubation) Harpo's HTYE broth ¹ , 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 Brucella 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 Test Article nucleic acid | None detected None detected None detected | None detected None detected None detected |

¹Atlas, Ronald M. <u>Handbook of Microbiological Media</u>. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

Date: 13 FEB 2014

Signature: Dorothy C. Young

Title:

Technical Manager, BEI Authentication or designee

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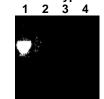
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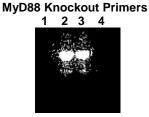
Certificate of Analysis for NR-15640

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Figure 1 – PCR Amplification

MyD88 Wild Type Primers





- Lane 1: Wild type microglial cells
- Lane 2: Knockout control
- Lane 3: TRIF/MyD88 double knockout microglia cells (NR-15640)
- Lane 4: Negative control (H₂O)