b|e|i RESOURCES
SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-48855

Complementary DNA Synthesized from Mouse MicroRNA (Unexposed to *Schistosoma* Species)

Catalog No. NR-48855

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

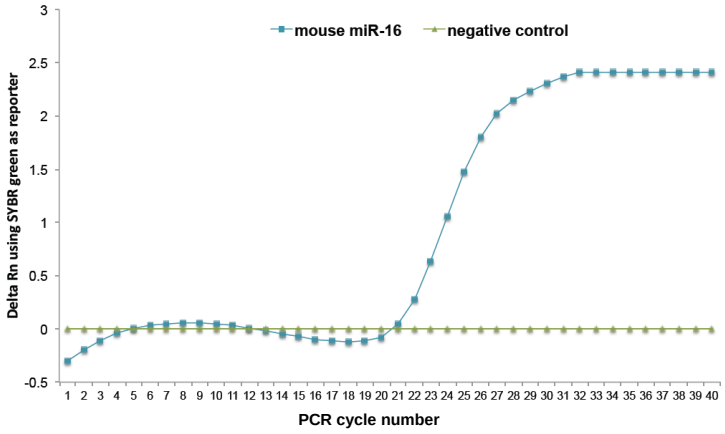
Product Description: Complementary DNA (cDNA) was synthesized from microRNA (miRNA) extracted from pooled plasma of normal mice that had not been infected with schistosomes.

Lot[1,2]: 63173345 **Manufacturing Date: 15OCT2014**

TEST	SPECIFICATIONS	RESULTS
Concentration	Report results	1.0 µg in 20 µL per vial (0.05 µg/µL)
OD_{260}/OD_{280} Ratio	1.70 to 2.00	1.80
Quantification of miRNA by RT-PCR[3,4]	Mouse miRNA-16 detected	Mouse miRNA-16 detected (Figure 1)

[1]QC testing was performed by the Biomedical Research Institute, Rockville, MD (NIH-NIAID Contract HHSN272201000005I)
[2]miRNA from pooled plasma from uninfected mice was purified by NucleoSpin® miRNA-Plasma Kit (Clontech). cDNA was synthesized from the miRNA, using Mir-X™ miRNA First Strand Synthesis (Clontech), according to the manufacturer's instructions.
[3]Real time PCR was performed using SYBR-qRT-PCR (Clontech) according to the manufacturer's instructions.
[4]Primers utilized for real time PCR are described in Hoy, A. M., et al. "Parasite-Derived MicroRNAs in Host Serum as Novel Biomarkers of Helminth Infection" PLoS Negl. Trop. Dis. 8 (2014): e2701. PubMed: 24587461.

Figure 1: Detection of miRNA-16 in Pooled Mouse Plasma from Uninfected Normal Mice (delta Rn is the normalized fluorescence of the reporter signal minus the baseline)



Date: 22 APR 2015 **Signature:**

BEI Resources Authentication

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the contributor 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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