

# Certificate of Analysis for NR-49141

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

### Catalog No. NR-49141

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 hamsters that had not been infected with schistosomes.

**Lot<sup>1,2</sup>:** 63188681

**Manufacturing Date:** 15OCT2014

TEST	SPECIFICATIONS	RESULTS
Concentration	Report results	1.0 µg in 20 µL per vial (0.05 µg/µL)
OD <sub>260</sub> /OD <sub>280</sub> Ratio	1.70 to 2.00	1.83
Quantification of miRNA by RT-PCR <sup>3,4</sup>	Hamster miRNA-16 detected	Hamster miRNA-16 detected (Figure 1)

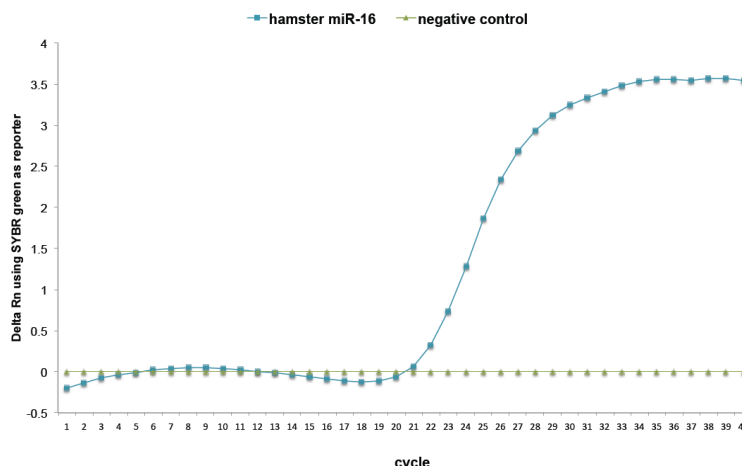
<sup>1</sup>QC testing was performed by the Biomedical Research Institute, Rockville, MD (NIH-NIAID Contract HHSN2722010000051)

<sup>2</sup>miRNA from pooled plasma from uninfected hamsters was purified by NucleoSpin<sup>®</sup> miRNA-Plasma Kit (Clontech). cDNA was synthesized from the miRNA, using Mir-X<sup>™</sup> miRNA First Strand Synthesis (Clontech), according to the manufacturer's instructions.

<sup>3</sup>Real time PCR was performed using SYBR-qRT-PCR (Clontech) according to the manufacturer's instructions.

<sup>4</sup>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 Hamster Plasma from Uninfected Normal Hamsters (delta Rn is the normalized fluorescence of the reporter signal minus the baseline)**



**Date:** 22 APR 2015

**Signature:**   
BEI Resources Authentication

ATCC<sup>®</sup>, 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<sup>®</sup>'s knowledge.

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