b|e|i RESOURCES

SUPPORTING INFECTIOUS DISEASE RESEARCH

Certificate of Analysis for NR-15894

Genomic DNA from *Giardia lamblia,* Strain WB clone C6

Catalog No. NR-15894

Product Description: Genomic DNA was isolated from *Giardia lamblia* (*G. lamblia*), also referred to as *G. intestinalis* and *G. duodenalis*, strain WB clone C6. *G. lamblia*, strain WB was isolated from a 29-year-old male in Afghanistan.

Lot[1]: 60724330 **Manufacturing Date: 26OCT2009**

TEST	SPECIFICATIONS	RESULTS
Agarose Gel Electrophoresis	High molecular weight chromosomal DNA	High molecular weight chromosomal DNA (Figure 1)
Content by PicoGreen® Measurement	0.5 to 3 µg in 25 to 100 µL per vial	0.6 µg in 74 µL per vial (~ 0.01 µg/µL)
Functional Activity by PCR Amplification[2] Sequencing of cytidine triphosphate (CTP) synthase gene	~ 1800 base pair amplicon	~ 1800 base pair amplicon
Genotypic Analysis CTP synthase gene (~ 510 base pairs)	Consistent with *G. lamblia*	Consistent with *G. lamblia*
OD_{260}/OD_{280} Ratio	1.7 to 2.0	1.8
Inactivation of Source Culture 10% of vial contents inoculated on ATCC® CRL-2695[3]	No viable organisms detected	No viable organisms detected

[1]NR-15894 was produced from a culture of NR-9706 lot 58211814. Genomic DNA was extracted using proprietary technology.
[2]Primer sequences and conditions for PCR are available upon request.
[3]Incubated in Keister's Modified TYIS33 Giardia Medium (ATCC Medium 2695) adjusted to contain 10% bovine serum for 6 days at 35°C in an aerobic atmosphere.

Date: 17 MAY 2013 **Signature:**

Title: Technical Manager, BEI Authentication or designee

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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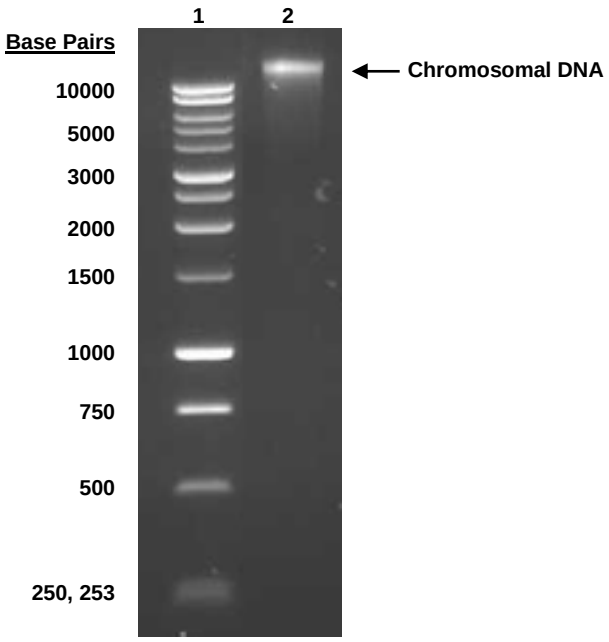
Figure 1



Lane 1: Promega 1kb DNA Ladder
Lane 2: 200 ng of NR-15894

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