

Genomic DNA from *Toxoplasma gondii*, ME49 (B7 clone)

Catalog No. NR-15430

For research use only. Not for human use.

Contributor:

Centers for Disease Control and Prevention, Atlanta, Georgia

Product Description:

Genomic DNA was isolated from *Toxoplasma gondii* (*T. gondii*), ME49 (B7 clone), which was originally isolated from a sheep in California.¹ *T. gondii*, ME49 (B7 clone) is also referred to as P and PLK strain (available as BEI Resources NR-10150).^{2,3}

T. gondii is an obligate intracellular protozoan parasite of the phylum Apicomplexa that is the causal agent of toxoplasmosis. *T. gondii* is dominated by three widespread clonal lineages, referred to as type I, II, and III. *T. gondii*, ME49 (B7 clone) is the Type II parental strain used in a genetic cross with the genotype Type III parental strain CTG ARA-SNF⁴ (available as BEI Resources NR-10151).

NR-15430 has been qualified for PCR applications by amplification of approximately 750 and 250 bp amplicons corresponding to the *T. gondii* KT-850 and SAG1 loci, respectively.

Material Provided:

Each vial of NR-15430 contains 1 to 3 µg of genomic DNA in 10 mM Tris-Cl, 0.5 mM EDTA, pH 9. The vial should be centrifuged prior to opening.

Packaging/Storage:

NR-15430 was packaged aseptically, in screw-capped plastic cryovials. The product is provided frozen and should be stored at -20°C or colder upon arrival. Freeze-thaw cycles should be minimized.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Genomic DNA from *Toxoplasma gondii*, ME49 (B7 clone), NR-15430."

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm.

Disclaimers:

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References:

1. Lunde, M. N. and L. Jacobs. "Antigenic Differences between Endozoites and Cystozoites of *Toxoplasma gondii*." *J. Parasitol.* 69 (1983): 806-808. PubMed: 6200590.
2. Ajioka, J. W. and L. D. Sibley. "Development and Application of Classical Genetics in *Toxoplasma gondii*." *Toxoplasma gondii: The Model Apicomplexan. Perspectives and Methods*. Ed. L. M. Weiss and K. Kim. London: Academic Press, 2007. 374-375.
3. Kasper, L. H. and P. L. Ware. "Recognition and Characterization of Stage-Specific Oocyst/Sporozoite Antigens of *Toxoplasma gondii* by Human Antisera." *J. Clin. Invest.* 75 (1985): 1570-1577. PubMed: 2581998.
4. Sibley, L. D., et al. "Generation of a Restriction Fragment Length Polymorphism Linkage Map for *Toxoplasma gondii*." *Genetics* 132 (1992): 1003-1015. PubMed: 1360931.

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