

Genomic DNA from *Toxoplasma gondii*, CTG ARA-SNF

Catalog No. NR-15431

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*), CTG ARA-SNF, which was originally the product of a genetic cross between singly resistant parental clones of the C (also CEP and CTG) strain, that were obtained by chemical mutagenesis.^{1,2} *T. gondii*, CTG ARA-SNF is also referred to as CTG ARA-SYN, CTG ARA-A^R/SNF^R and CEP ARA-A^R/SNF^R (available as BEI Resources NR-10151).

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* CTG ARA-SNF is the Type III parental strain used in a genetic cross with the genotype Type II parental strain ME49 (B7 clone)³ (available as BEI Resources NR-10150).

NR-15431 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-15431 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-15431 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*, CTG ARA-SNF, NR-15431."

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/bmb15/bmb15toc.htm.

Disclaimers:

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References:

1. 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.
2. Pfefferkorn, E.R. and L. H. Kasper. "*Toxoplasma gondii*: Genetic Crosses Reveal Phenotypic Suppression of Hydroxyurea Resistance by Fluorodeoxyuridine Resistance." *Exp. Parasitol.* 55 (1983): 207-218. PubMed: 6219892.
3. 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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