

**Genomic DNA from *Toxoplasma gondii*, Strain MAS**

**Catalog No. NR-34795**

**For research use only. Not for human use.**

**Contributor:**

Centers for Disease Control and Prevention, Atlanta, Georgia

**Manufacturer:**

BEI Resources

**Product Description:**

Genomic DNA was isolated from *Toxoplasma gondii* (*T. gondii*), strain MAS, which was originally isolated from a human with severe congenital toxoplasmosis in France in 1991.<sup>1</sup>

*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*, strain MAS is a prototype type IV strain and is a reference strain for the [Toxoplasma gondii Genome Project](#) at the J. Craig Venter Institute's [Genomic Sequencing Center for Infectious Diseases](#) (GSCID). The whole genome shotgun assembly of *T. gondii*, strain MAS is available (GenBank: [AEXC0000000](#)).

NR-34795 has been qualified for PCR applications by amplification of the UPRT intron 1 genetic locus of *T. gondii*.

**Material Provided:**

Each vial of NR-34795 contains 1 to 3 µg of genomic DNA in 10 mM Tris-HCl, 0.5 mM EDTA, pH 9. The vial should be centrifuged prior to opening.

**Packaging/Storage:**

NR-34795 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 BEI Resources, NIAID, NIH: Genomic DNA from *Toxoplasma gondii*, Strain MAS, NR-34795."

**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, 2009; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](#).

**Disclaimers:**

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**References:**

1. Darde, M. L., B. Bouteille and M. Pestre-Alexandre. "Isoenzyme Analysis of 35 *Toxoplasma gondii* Isolates and the Biological and Epidemiological Implications." [J. Parasitol.](#) 78 (1992): 786-794. PubMed: 1403418.
2. Howe, D. K. and L. D. Sibley. "*Toxoplasma gondii* Comprises Three Clonal Lineages: Correlation of Parasite Genotype with Human Disease." [J. Infect. Dis.](#) 172 (1995): 1561-1566. PubMed: 7594717.
3. Khan, A., et al. "Recent Transcontinental Sweep of *Toxoplasma gondii* Driven by a Single Monomorphic Chromosome." [Proc. Natl. Acad. Sci. USA](#) 104 (2007): 14872-14877. PubMed: 17804804.
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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