

# PRODUCT SPOTLIGHT

## PARASITIC PROTOZOA GENOMIC DNA

Standardized molecular reagents are critical in the development of molecular assays used to diagnose parasitic disease. Genomic DNA preparations from parasitic protozoa provide researchers with rapid access to protozoan nucleic acids without the hassle of in vitro expansions. They are useful in a variety of applications, including PCR-based assays and whole genome sequencing.

ATCC offers a growing assortment of DNA prepared from our vast collection of living stock protists. Protozoa DNA are available in two easy formats, including the ATCC Protozoa DNA Panels as well as individual reagents. Each preparation provides  $\geq 2 \mu\text{g}$  genomic DNA, tested for:

- Purity using absorbance
- Concentration by absorbance or PicoGreen®
- Integrity via gel electrophoresis
- Identity and functional activity by PCR amplification of the 18S rRNA gene or other gene targets

### ATCC PROTOZOA DNA PANELS

The ATCC Protozoa DNA Panels are comprised of nucleic acid preparations isolated from taxonomic and medically-relevant strains. Each panel is offered at bulk discount pricing, allowing you to take advantage of added cost savings when compared to individual items.

#### LEISHMANIA DNA PANEL (ATCC® MP-13™)

Leishmaniasis is caused by parasites of the genus *Leishmania* that are transmitted via the bite of various phlebotomine sandfly species. Vaccines against leishmaniasis are still under development, thus the control of this disease relies on prompt diagnosis and chemotherapy in infected humans. The ATCC *Leishmania* DNA Panel (ATCC® [MP-13™](#)) consists of:

ATCC® No.	Description	Strain
<a href="#">50134D™</a>	Genomic DNA from <i>Leishmania infantum</i>	MHOM/TN/80/IPT-1
<a href="#">PRA-309D™</a>	Genomic DNA from <i>Leishmania major</i>	Seidman
<a href="#">30012D™</a>	Genomic DNA from <i>Leishmania major</i>	--
<a href="#">30030D™</a>	Genomic DNA from <i>Leishmania donovani</i>	Khartoum

#### ENTERIC PROTOZOA DNA PANEL (ATCC® MP-14™)

Diarrheal diseases due to intestinal protozoan pathogens cause a significant amount of morbidity and mortality worldwide. Three pathogens, *Giardia intestinalis*, *Cryptosporidium* sp., and *Entamoeba histolytica*, are responsible for the majority of intestinal disease caused by this group of pathogens. The ATCC Enteric Protozoa DNA Panel (ATCC® [MP-14™](#)) consists of:

ATCC® No.	Description	Strain
<a href="#">50803D™</a>	Genomic DNA from <i>Giardia intestinalis</i>	WB Clone C6
<a href="#">PRA-67DQ™</a>	Genomic DNA from <i>Cryptosporidium parvum</i>	Iowa
<a href="#">50608D™</a>	Genomic DNA from <i>Blastocystis hominis</i>	BT1
<a href="#">30459DQ™</a>	Genomic DNA from <i>Entamoeba histolytica</i>	HM-1:IMSS*

\*This strain only yields  $\geq 50$  ng of DNA.

## INDIVIDUAL REAGENTS

Select protozoa DNA preparations from our expanding list of selections, including DNA from *Neospora*, *Toxoplasma*, and *Trypanosoma*.

Species and ATCC® No.	Description	Strain
<b><i>Acanthamoeba</i> sp.</b>		
<a href="#">30010D™</a>	Genomic DNA from <i>Acanthamoeba castellanii</i>	Neff
<b><i>Blastocystis</i> <i>hominis</i></b>		
<a href="#">50177D™</a>	Genomic DNA from <i>Blastocystis hominis</i>	Nand II
<a href="#">50608D™</a>	Genomic DNA from <i>Blastocystis hominis</i>	BT1
<b><i>Cryptosporidium</i> sp.</b>		
<a href="#">PRA-67D™</a>	Genomic DNA from <i>Cryptosporidium parvum</i>	Iowa
<b><i>Entamoeba</i> <i>histolytica</i></b>		
<a href="#">30459D™</a>	Genomic DNA from <i>Entamoeba histolytica</i>	HM-1:IMSS*
<b><i>Giardia</i> <i>intestinalis</i></b>		
<a href="#">30888D™</a>	Genomic DNA from <i>Giardia intestinalis</i>	Portland-1
<a href="#">30957D™</a>	Genomic DNA from <i>Giardia intestinalis</i>	WB
<a href="#">50803D™</a>	Genomic DNA from <i>Giardia intestinalis</i>	WB Clone C6
<b><i>Leishmania</i> sp.</b>		
<a href="#">50134D™</a>	Genomic DNA from <i>Leishmania infantum</i>	MHOM/TN/80/IPT-1
<a href="#">PRA-309D™</a>	Genomic DNA from <i>Leishmania major</i>	Seidman
<a href="#">30012D™</a>	Genomic DNA from <i>Leishmania major</i>	--
<a href="#">30030D™</a>	Genomic DNA from <i>Leishmania donovani</i>	Khartoum
<b><i>Neospora</i> sp.</b>		
<a href="#">50843D™</a>	Genomic DNA from <i>Neospora caninum</i>	Nc-1
<b><i>Toxoplasma</i> <i>gondii</i></b>		
<a href="#">50174D™</a>	Genomic DNA from <i>Toxoplasma gondii</i>	RH
<b><i>Trypanosoma</i> sp.</b>		
<a href="#">30022D™</a>	Genomic DNA from <i>Trypanosoma lewisi</i>	Lincicome
<a href="#">30266D™</a>	Genomic DNA from <i>Trypanosoma cruzi</i>	Tulahuen
<a href="#">50823D™</a>	Genomic DNA from <i>Trypanosoma cruzi</i>	SYLVIO-X10
<b><i>Trichomonas</i> sp.</b>		
<a href="#">30001D™</a>	Genomic DNA from <i>Trichomonas vaginalis</i>	C-1:NIH

\*This strain only yields ≥50 ng of DNA.

### THE ATCC PROTOZOA & ALGAE WEBPAGE HAS A NEW LOOK!

VISIT US ONLINE AT [HTTPS://WWW.ATCC.ORG/MICROBE-PRODUCTS/PROTISTOLOGY/PARASITIC-PROTOZOA](https://www.atcc.org/microbe-products/protistology/parasitic-protzoa) TO LEARN MORE ABOUT:

- ATCC living stock protists
- Protozoan nucleic acids
- Culture media

 10801 University Boulevard  
Manassas, Virginia 20110-2209

 703.365.2700

 703.365.2701

 [sales@atcc.org](mailto:sales@atcc.org)

 [www.atcc.org](http://www.atcc.org)

MB-112021-v04

©2022 American Type Culture Collection. The ATCC trademark and trade name, and any other trademarks listed in this publication are trademarks owned by the American Type Culture Collection unless indicated otherwise. The Polymerase Chain Reaction (PCR) process is covered by patents owned by Hoffman-La Roche, Inc. Use of the PCR process requires a license

These products are for laboratory use only. Not for human or diagnostic use. ATCC products may not be resold, modified for resale, used to provide commercial services or to manufacture commercial products without prior ATCC written approval.