

Pathogen Assays

Viruses

- Norovirus GI: ORF1-ORF2 junction
- Norovirus GII: ORF1-ORF2 junction
- Sapovirus (pan-genogroup): RNA-dependent RNA polymerase
- Astrovirus A: ORF2 (capsid)
- Enterovirus (pan-species): 5' UTR
- Human Adenovirus (pan-serotype): hexon
- Human Adenovirus group F (40/41): enteric hexon/fiber
- Rotavirus A: VP6
- Hepatitis A: 5' NCR
- Hepatitis E: ORF2/3 overlap
- SARS-CoV-2: N1/N2
- Influenza A: M
- Influenza B: NS
- Respiratory Syncytial Virus A/B: N
- Mpox (clade I, formerly Congo Basin): J2R
- Mpox (clade II, formerly West African): J2R
- Mpox (pan-clade): F3L

Bacteria

- *Campylobacter* spp. (pan): cadF
- *Campylobacter coli*: ceuE
- *Campylobacter jejuni*: hipO
- *Salmonella* spp. (pan): invA
- *Salmonella enterica*: ttr
- *Escherichia coli* O157:H7: rfbE/fliC-H7
- Enterohemorrhagic *E. coli* (EHEC/STEC): stx1/stx2/eae
- Enterotoxigenic *E. coli* (ETEC): eltB/estA
- *Shigella*/Enteroinvasive *E. coli*: ipaH
- *Clostridium perfringens*: cpa
- *Mycobacterium avium* complex: hsp65/IS1245
- *Legionella* spp. (pan): ssrA/23S
- *Legionella pneumophila*: mip
- *L. pneumophila* serogroup 1: wzm
- *Pseudomonas aeruginosa*: ecfX
- *Vibrio cholerae*: ctxA
- *Vibrio vulnificus*: vvhA
- *Vibrio parahaemolyticus*: tdh/trh

Protozoa

- *Giardia duodenalis* (syn. *G. lamblia*): β -giardin/18S rRNA
- *Cryptosporidium* spp.: 18S rRNA
- *Cyclospora cayetanensis*: 18S rRNA
- *Entamoeba histolytica*: 18S rRNA
- *Toxoplasma gondii*: 529-bp repeat/B1
- *Naegleria fowleri*: ITS
- *Acanthamoeba* spp.: 18S rRNA
- *Microsporidia* spp. (*Enterocytozoon bieneusi*, *Encephalitozoon intestinalis*): ITS

All assays are analyzed on Bio-Rad QX600 droplet digital-PCR platforms. Results indicate nucleic acid presence and do not confirm organism viability.

Custom Markers

We specialize in the development of custom assays and our experience allows us to optimize panels to match your project needs.



Phone: 858-203-3145
Email: info@h2omolecular.com
www.h2omolecular.com

5752 Oberlin Dr
Suite 107
San Diego, CA 92121