

# Gastrointestinal Pathogens for Stool Testing

ANTIBODIES & ANTIGEN CONTROLS USED IN STOOL ANTIGEN DETECTION ASSAYS



Meridian offers a range of antibodies and antigens for use in various immunoassays to detect gastrointestinal pathogens. These products are currently being used in validated, commercial diagnostic assays to detect pathogens from stool samples

## COMMON GASTRO PATHOGENS

- Adenovirus
- Astrovirus
- Calprotectin
- *Campylobacter coli*
- *Campylobacter jejuni*
- *Clostridium difficile*
- *Cryptosporidium parvum*
- *E. coli* O157
- *Entamoeba species*
- Enterovirus
- *Giardia lamblia*
- *Helicobacter pylori*
- Lactoferrin
- *Listeria monocytogenes*
- Norovirus
- Rotavirus
- *Salmonella*
- *Shigella*
- Verotoxin
- *Yersinia enterocolitica*



## DIAGNOSTICS FOR ACUTE GASTROENTERITIS

Acute gastroenteritis is a common syndrome that is generally caused by a virus, parasite or food-borne bacteria. Diagnosis of the responsible intestinal pathogen requires the detection of the organism in the feces, duodenal fluid, or small intestine using biopsy specimens.

Since fecal examination is labor intensive and requires a skilled microscopist, antigen detection tests have been developed as alternatives using immunofluorescent assays (IFA), enzyme immunoassay (EIA), and rapid diagnostic tests (RDTs) in various formats. Some of these immunoassays are quick to perform, do not require skilled personnel and are very specific. There are many commercially available diagnostics for a range of gastrointestinal pathogens, including panel assays that simultaneously test for a range of possible infectious agents using a single stool sample.

Large panel of matched antibody pairs

Antigens available for use as controls

Pairs demonstrated to work in ELISA, LF or both

All suitable for development in stool based assays



# ANTIBODIES FOR STOOL TESTING

## Adenovirus Hexon

C11994M	ELISA, LF
C01727M	ELISA, LF, pair
C01728M	ELISA, LF, pair
C01554M	ELISA, LF, IFA, pair
C01256M	ELISA, LF, IFA, pair
C65431M	ELISA, LF, IFA, pair
C65604M	ELISA, LF, IFA, pair
C01953M	LF, pair

## Adenovirus 40 & 41

C66431M	ELISA
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## Astrovirus

C01981M	ELISA, IFA, IHC, pair
C01982M	ELISA, IFA, IHC, pair
C01983M	ELISA, IFA, IHC, pair
C01984M	ELISA, pair
C01955M	LF, pair
C01954M	LF, pair

## C. coli and C. jejuni

C01946M	LF, pair
C01947M	LF, pair

## Calprotectin L1

K01375M	ELISA
K01374M	ELISA
K01373M	ELISA, pair
K01376M	ELISA, pair

## Campylobacter jejuni

C66700M	ELISA
C65727M	ELISA, LF, WB, pair

## Clostridium difficile GDH

C01957M	LF, pair
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## Clostridium difficile Toxin A

C70517M	ELISA
C01677M	ELISA, pair
C01678M	ELISA, pair

## Clostridium difficile Toxin B

C65427M	ELISA
C65423M	ELISA, LF, pair
C65426M	ELISA, LF, pair

## Cryptosporidium parvum

C65370M	ELISA, IFA, IHC
C01948M	LF, pair

## E. coli O157

C65160M	ELISA, IFA
C01533M	ELISA, IFA, pair
C01535M	ELISA, IFA, pair
C01958M	LF, pair

## Entamoeba histolytica & dispar

C01945M	LF, pair
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## Giardia lamblia

C01597M	ELISA, IFA, WB
C01950M	(trophozoite) LF, pair
C01949M	(trophozoite) LF, pair
C65361M	ELISA, IFA, WB, pair
C65612M	ELISA, IFA, WB, pair

## Helicobacter pylori

C65461M	ELISA, IFA, WB
C01956M	LF, pair

## Lactoferrin

H01412M	LF, pair
H01411M	LF, pair

## Norovirus GI Capsid

C01871M	ELISA, LF, WB, pair
C01872M	ELISA, LF, WB, pair
C01875M	ELISA, WB, pair

## Norovirus GII Capsid

C01877M	ELISA, LF, WB, pair
C01878M	ELISA, pair
C01879M	ELISA, LF, WB, pair
C01880M	ELISA, LF, WB, pair

## Rotavirus

C65194M	ELISA, LF, pair
C65196M	ELISA, LF, pair
C65197M	ELISA, LF, pair
C01729M	ELISA, LF, pair
C01730M	ELISA, LF, pair

## Rotavirus Group A Specific Antigen, VP6

C66130M	ELISA
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## Salmonella

C01918M	ELISA, IFA, LF, pair
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## Salmonella species (A,B,C,D,E,F & G Groups)

C65957M	ELISA, IFA
C01360M	ELISA, IFA

## Salmonella paratyphi A

C01884M	ELISA, IFA
C01921M	ELISA, IFA, pair

## Salmonella typhi (LPS)

C01362M	ELISA, IFA, LF, pair
C01919M	ELISA, IFA, LF, pair

## Shigella

B65901R	ELISA, IFA
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## Verotoxin I (Shiga-Like) B Subunit (SLT-1b, STX-1b)

C01690M	ELISA
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## Verotoxin II (Shiga-like) A subunit (SLT-2a, STX-2a)

C65585M	ELISA, Neutralizing
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# ANTIGENS FOR STOOL TESTING

Several antigens have been tested with antibody pairs. See page 4 for further information.

## **Astrovirus**

R01729, *E. coli* LF, pair

## **Calprotectin**

R01724, *E. coli* LF

## **Campylobacter coli**

A01713N, Native LF, pair

R01720, *E. coli* LF, pair

## **Campylobacter jejuni**

A01714N, Native LF, pair

R01721, *E. coli* LF, pair

## **Clostridium difficile Toxin A**

R01739, *E. coli* LF

## **Clostridium difficile Toxin B**

R01740, *E. coli* LF

## **Clostridium difficile GDH**

R01738, *E. coli* LF, pair

## **Cryptosporidium parvum**

A01709N, Native LF, pair

## **E. coli 0157**

A01718N, Native LF

R01741, *E. coli* LF

R01742, *E. coli* LF

## **Entamoeba**

R01718, *E. coli* (*histolytica*), LF, pair

R01719, *E. coli* (*dispar*), LF, pair

## **Enterovirus**

R01735, *E. coli* LF

R01736, *E. coli* LF

R01737, *E. coli* LF

R01763, *E. coli* LF

R01764, *E. coli* LF

R01765, *E. coli* LF

## **Giardia lamblia**

R01723, Yeast LF

R01722, *E. coli* LF, pair

## **Helicobacter pylori**

A01722, Native LF, pair

## **Lactoferrin**

A01712H, Native LF, pair

## **Listeria monocytogenes**

A01710N LF

## **Norovirus GI**

R01731, *E. coli* LF

R01730, *E. coli* LF

R01744, Insect LF

## **Norovirus GII**

R01732, *E. coli* LF

R01733, *E. coli* LF

R01734, *E. coli* LF

R01745, *E. coli* LF

## **Rotavirus**

R01728, *E. coli* LF

## **Salmonella**

A01699N, Native (*typhi*), LF

A01716N, Native (*typhi*), LF

A01700N, Native (*paratyphi A*), LF

A01701N, Native (*paratyphi B*), LF

A01702N, Native (*enteritidis*), LF

## **Shigella**

A01704N, Native (*boydii*), LF

A01705N, Native (*dysenteriae*), LF

A01706N, Native (*sonnei*), LF

A01721N, Native (*flexneri*), LF

## **Yersinia enterocolitica**

A01707N, Native LF

A01708N, Native LF



## Antibody Pairs

	CAPTURE	DETECTION	ANTIGEN	APPS
<b>Adenovirus</b>	C01727M	C01728M		ELISA & LF
	C65431M	C01554M		ELISA & LF
	C01953M	C01953M		LF
	C65431M	C01256M		ELISA & LF
	C65431M	C65604M		ELISA & LF
<b>Astrovirus</b>	C01955M	C01954M	R01729	LF
	C01981M	C01982M		ELISA & IFA
	C01981M	C01983M		ELISA & IFA
	C01984M	C01982M		ELISA
	C01984M	C01983M		ELISA
<b>Calprotectin L1</b>	K01373M	K01376M		ELISA
<b>C. coli and C. jejuni</b>			A01714N ( <i>C. jejuni</i> ) (Native)	LF
	C01947M	C01946M	A01713N ( <i>C. coli</i> ) (Native)	LF
			R01721 ( <i>C. jejuni</i> OMP) (Recombinant)	LF
			R01720 ( <i>C. coli</i> OMP) (Recombinant)	LF
<b>C. difficile Toxin A</b>	C01678M	C01677M		ELISA
<b>C. difficile Toxin B</b>	C65423M	C65426M		LF
<b>C. difficile GDH</b>	C01957M	C01957M	R01738	LF
<b>C. jejuni</b>	C65727M	C65727M		ELISA & LF
<b>C. parvum</b>	C01948M	C01948M	A01709N (Native)	LF
<b>E. coli O157</b>	C01535M	C01533M		ELISA
	C01958M	C01958M		LF
<b>Entamoeba</b>	C01945M	C01945M	R01718 ( <i>E. histolytica</i> ) (Native)	LF
			R01719 ( <i>E. dispar</i> ) (Native)	LF
<b>G. lamblia</b>	C01950M	C01949M	R01722 (Recombinant)	LF
	C65612M	C65361M		ELISA
<b>H. pylori</b>	C01956M	C01956M	A01722N	LF
<b>Lactoferrin</b>	H01412M	H01411M	A01712H (Native)	LF
<b>Norovirus GI Capsid</b>	C01872M	C01871M		LF
	C01873M	C01875M		ELISA & WB
	C01871M	C01875M		ELISA
	C01874M	C01875M		ELISA
<b>Norovirus GII Capsid</b>	C01880M	C01878M		LF
	C01880M	C01880M		LF
	C01879M	C01877M		LF
	C01877M	C01878M		ELISA
	C01877M	C01877M		ELISA
<b>Rotavirus</b>	C65196M	C65194M		ELISA & LF
	C65196M	C65197M		ELISA & LF
	C01729M	C01730M		ELISA & LF
<b>Salmonella</b>	C01919M	C01918M		ELISA, IFA & LF
	C01921M	C01918M		ELISA & IFA
	C01362M	C01362M		ELISA, IFA & LF

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