

NATtrol™ Gastrointestinal Panels Control Kit

PRODUCT DESCRIPTION:

NATtrol™ Gastrointestinal Panels Control Kit (NATGIPCK-DIA) includes positive and negative gastrointestinal controls. The positive controls contain purified, intact microorganisms and viruses that have been chemically modified to render them non-infectious and refrigerator stable and are formulated in a proprietary matrix. The negative control is formulated in the absence of any microorganisms or viruses and contains proprietary matrix only.

INTENDED USE:

NATtrol™ Gastrointestinal Panels Control Kit includes positive and negative external run controls intended to be used with molecular assays that detect nucleic acids from Adenovirus F40/41, Astrovirus, *Blastocystis* spp., *Campylobacter* spp., *Clostridioides difficile* (*tcdA/tcdB*), *Cryptosporidium* spp., *Cyclospora cayetanensis*, *Dientamoeba fragilis*, *Entamoeba histolytica*, Enterotoxigenic *E. coli* (ETEC) LT/ST, *Giardia lamblia*, Microsporidia, Norovirus GI/GII, *Plesiomonas shigelloides*, Rotavirus A, *Salmonella* spp., Sapovirus I/II/IV/V, Shiga-like toxin-producing *E. coli* (STEC) *stx1*, Shiga-like toxin-producing *E. coli* (STEC) *stx2*, Shigella/Enteroinvasive *E. coli* (EIEC), *Strongyloides stercoralis*, *Vibrio* spp., *Vibrio cholerae*, and *Yersinia enterocolitica*. The controls can be used to monitor the process steps of extraction, amplification and detection. The controls can also be used for training and evaluation of operator variation.

MATERIALS SUPPLIED:

Component	Organism/Virus	Component	Organism/Virus
3 x 0.2 mL GI Panel Control 1	<i>Campylobacter jejuni</i>	3 x 0.2 mL GI Panel Control 2	<i>Clostridium difficile</i> (NAP1)
	<i>Cryptosporidium parvum</i> (Iowa isolate)		<i>Escherichia coli</i> (ETEC; ST+, LT+)
	<i>Escherichia coli</i> with <i>Blastocystis hominis</i> plasmid ¹		<i>Escherichia coli</i> with Sapovirus plasmid ¹
	Norovirus GI Recombinant ²		<i>Escherichia coli</i> with <i>Strongyloides stercoralis</i> plasmid ¹
	Rotavirus Group A (Wa)		<i>Giardia lamblia</i> (H3 isolate)
	<i>Salmonella enterica</i> Typhimurium		Rotavirus Group A (Wa)
	<i>Vibrio cholerae</i> (non-toxigenic)		<i>Yersinia enterocolitica</i> (clinical isolate)
3 x 0.2 mL GI Panel Control 3	Astrovirus Type 8 (ERE IID 2371) ³	3 x 0.2 mL GI Panel Control 4	Adenovirus Type 40 (Dugan)
	<i>Escherichia coli</i> with <i>Cyclospora cayetanensis</i> plasmid ¹		Astrovirus Type 8 (ERE IID 2371) ³
	<i>Escherichia coli</i> with <i>Encephalitozoon intestinalis</i> plasmid ¹		<i>Entamoeba histolytica</i> (DS4-868)
	Norovirus GI Recombinant ²		<i>Escherichia coli</i> (O157:H7 EDL933)
	<i>Plesiomonas shigelloides</i>		<i>Escherichia coli</i> with <i>Dientamoeba fragilis</i> plasmid ¹
	<i>Shigella sonnei</i>		<i>Escherichia coli</i> with Sapovirus plasmid ¹
	<i>Vibrio parahaemolyticus</i>		
12 x 0.2 mL GI Negative Control	Matrix only		

¹This analyte contains *Escherichia coli* harboring a plasmid containing a short sequence of the organism's genome therefore each laboratory must evaluate performance in their assay.

²This analyte only contains a short sequence of the genome, therefore each laboratory must evaluate performance in their assay.

³This strain is sourced and used under license from the National Collection of Pathogenic Viruses (NCPV®), Public Health England.

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WARNINGS AND PRECAUTIONS:

- NATtrol™ inactivation was carried out on microorganism and virus stocks used to formulate the control. The inactivation was verified in a standard microbiological growth protocol.
- This product contains inactivated microorganisms and viruses and materials of animal origin. Safe practices suggest that the controls be considered potentially infectious and to use Universal Precautions when handling.

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- Refer to CDC guidelines and local regulations for handling and disposal.
- The stool diluent used in the manufacture of this product contains 0.05% gentamicin sulfate and 0.125% 2-chloroacetamide.
- Heat inactivated Bovine Serum Albumin used in the manufacture of this product meets applicable USDA requirements for abattoir sourced animals, traceability, and country of origin. The materials were collected at USDA licensed establishments or legally imported from countries recognized by the USDA as negligible or controlled for risk for Bovine Spongiform Encephalopathy (BSE) and other exotic disease agents. Donor animals were inspected ante and postmortem at the abattoir as required by the USDA.
- Do not use past the expiration date on the label.
- To avoid cross-contamination, use separate pipette tips for all materials.

RECOMMENDED STORAGE:

- Store at 2-8°C.

INSTRUCTIONS FOR USE:

- Mix tube vigorously for at least 5 secs.
- Process according to manufacturer's instructions for sample to result assays.
- Extract nucleic acid prior to use in downstream assays that are not sample to result.
- Each vial is intended for single use.

LIMITATIONS:

- **FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.**
- Quality control materials should be used in accordance with local, state, federal, and accreditation requirements.
- This product is not intended to replace the manufacturer's controls provided with the assay.

EXPECTED RESULTS:

NATtrol™ Gastrointestinal Panels Control Kit does not have assigned analyte values or ranges. Each laboratory must evaluate the controls and establish their own performance criteria.

Symbols used in the labeling of this product:

	Manufacturer		Temperature Limitation
	For Research Use Only		Expiration Date
	Catalog Number		Biological Risk
	Batch Code		