



GI PANEL PCR (Qualitative)

Synonym(s): Campylobacter, Salmonella, Vibrio, E.coli 0157, Norovirus, Rotavirus

Back To Previous Page (javascript: history.go(-1))

Lab Section Category	Molecular Diagnostics - Microbiology Click here to find out more about the write-up (/clinical-departments-centers/pathology/pathology-handbook/lab-discipline-special-instructions/pages/moleculardiagnosics.aspx).
-----------------------------	---

Indications

To assist in identifying the etiologic agent(s) of infectious gastroenteritis, by simultaneous detection of 22 common gastrointestinal pathogens including viruses, bacteria and parasites.

Pathogens covered by this assay include:

- Bacteria
 - o Campylobacter sp. (eg. C.jejuni, C.coli and C.upsaliensis)
 - o Clostridium difficile (toxin A/B)
 - o Plesiomonas shigelloides
 - o Salmonella sp.
 - o Yersinia enterocolitica
 - o Vibrio sp. (eg. V.parahaemolyticus, V.vulnificus and V.cholerae)
 - o Vibrio cholerae
 - o Enteraggregative Escherichia coli (EAEC)
 - o Enteropathogenic Escherichia coli (EPEC)
 - o Enterotoxigenic Escherichia coli (ETEC) It/st
 - o Shiga-like toxin-producing Escherichia coli (STEC) stx1/stx2
 - o Escherichia coli O157
 - o Shigella sp./Enteroinvasive Escherichia coli (EIEC)
- Viruses
 - o Adenovirus F 40/41
 - o Astrovirus
 - o Norovirus GI/GII
 - o Rotavirus A
 - o Sapovirus (I, II, IV and V)
- Parasites
 - o Cryptosporidium sp.
 - o Cyclospora cayetanensis
 - o Entamoeba histolytica
 - o Giardia lamblia

Please note that other than for the protozoan parasites listed above, this assay does not detect other enteric parasites, e.g. helminthic ova/larvae, microsporidia, etc. For patients with strongly

	suspected <i>Clostridium difficile</i> -associated diarrhoeal disease (CDAD), currently available stand-alone <i>C.difficile</i> PCR is the preferred test as it is more cost-effective.
Specimen Required	1 mL of fresh stool sample or stool sample in Cary Blair medium. Please note that sample types other than stool samples have not been validated on this new assay and will generally be rejected.
Storage and Transport	Refrigerate sample at 2-8°C until transfer to laboratory. Do not freeze. Send sample at 2 - 8°C. Sample should reach the laboratory as soon as possible preferably within 24 hours after collection.
Method	Multiplex real-time PCR
Test Result	Detected, Not detected or Inconclusive
Turnaround Time	Next working day
Day(s) Test Set up	Mondays to Saturdays (except public holidays)

[Back To Previous Page \(javascript: history.go\(-1\)\)](#)

©Copyright 2018 Singapore General Hospital, Outram Road, Singapore 169608