

FACT SHEET

Gastrointestinal PCR Panel (GP)

Test 6500

Test Description:

The County of San Luis Obispo Public Health Laboratory performs a Gastrointestinal PCR Panel that allows detection of 22 agents including viruses, bacteria and parasites the cause diarrhea. The molecular amplification method is a multiplex, nested PCR with duplicate microarray targets. PCR is most rapid and sensitive detection method, allowing specific identification of the infective agents or toxin genes, and also allowing the detection of co-infecting agents. Rapid diagnosis

of enteric viruses, bacterial agents and their toxins, and parasites permits therapy and other appropriate patient management efforts to be applied at the earliest juncture.

The panel also can be used to detect outbreaks in closed settings where secondary transmission of some agents can be important, allowing for the correct interventions and early control of transmission. Results can be obtained in under 2 hours upon arrival to the Public Health Laboratory.

Agents detected by the Gastrointestinal PCR Panel

Viruses	Bacteria	Parasites
Norovirus GI/GII Sapovirus (I,II,IV and V) Rotavirus A Adenovirus F 40/41 .Astrovirus	Plesiomonas shigelloides Salmonella Shigella/Enteroinvasive E. coli(EIEC) Campylobacter Clostridium difficile Toxin A/B Shigatoxin-producing E coli(stx1/stx 2) Enterotoxigenic E coli (ETEC) LT /ST Enteroaggregative E. coli (EAEC) Enteropathogenic E coli (EPEC) Escherichia coli O157 Vibrio cholerae Vibrio spp. Yersinia enterocolitica.	Cryptosporidium Giardia lamblia Cyclospora cayetanensis Entamoeba histolytica

Sensitivity

In general sensitivity for detection varies according to the agent detected from 94.5% to 100%

Specificity

Specificity for all viruses varies from 97.1 to 100%.

Specimens accepted for testing:

Stool in Cary Blair transport medium. Specimens may be stored for up to 4 days at room temperature or refrigerated before processing.

CPT code: 87507



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Laboratory Hours: Monday – Friday, 8:00am – 5:00pm