

Patient: Ima Pathogens Sample

Collected: 08/02/2022

DOB: 07/11/1981

Gender: M

Accession: 000000000-0003

Received: 08/03/2022

Completed: 8/22/2022

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DNA STOOL ANALYSIS BY QUANTITATIVE PCR

YOUR PERSONALIZED REPORT

PATHOGENS

The GI-MAP® includes pathogens (bacterial, parasitic and viral) commonly known to cause gastroenteritis. Note that not all individuals with positive findings will present with symptoms. Many factors, including the health of the individual (such as immune health, digestive function, and microbiome balance), the transient nature of most pathogens, and the presence and expression of virulence factors, all contribute to pathogen virulence and individual symptoms.

BACTERIAL PATHOGENS	Result	Reference
<i>Campylobacter</i>	< dl	< 1.00e3
<i>C. difficile</i> Toxin A	1.21e5 High ↑	< 1.00e3
<i>C. difficile</i> Toxin B	2.27e5 High ↑	< 1.00e3
<i>Enterohemorrhagic E. coli</i>	< dl	< 1.00e3
<i>E. coli</i> O157	< dl	< 1.00e3
Enteroinvasive <i>E. coli</i> /Shigella	< dl	< 1.00e2
Enterotoxigenic <i>E. coli</i> LT/ST	< dl	< 1.00e3
Shiga-like Toxin <i>E. coli</i> stx1	< dl	< 1.00e3
Shiga-like Toxin <i>E. coli</i> stx2	< dl	< 1.00e3
<i>Salmonella</i>	< dl	< 1.00e4
<i>Vibrio cholerae</i>	< dl	< 1.00e5
<i>Yersinia enterocolitica</i>	4.46e3	< 1.00e5
PARASITIC PATHOGENS		
<i>Cryptosporidium</i>	< dl	< 1.00e6
<i>Entamoeba histolytica</i>	< dl	< 1.00e4
<i>Giardia</i>	< dl	< 5.00e3
VIRAL PATHOGENS		
Adenovirus 40/41	< dl	< 1.00e10
Norovirus GI/II	< dl	< 1.00e7

KEY: Results are reported as genome equivalents per gram of stool, which is a standard method for estimating the number of microbes measured per gram of stool, based on qPCR analysis of DNA samples.

Results are expressed in standard scientific notation. For example, a reported result of 3.5e7 is equivalent to 3.5×10^7 microbes per gram, which equals 35,000,000 (35 million) microbes per gram of stool.

< dl represents results below detectable limit.

HELICOBACTER PYLORI

H. PYLORI & VIRULENCE FACTORS

	Result	Reference
<i>Helicobacter pylori</i>	2.90e3 High ↑	< 1.00e3
Virulence Factor, babA	Positive	Negative
Virulence Factor, cagA	Positive	Negative
Virulence Factor, dupA	Negative	Negative
Virulence Factor, iceA	Negative	Negative
Virulence Factor, oipA	Negative	Negative
Virulence Factor, vacA	Negative	Negative
Virulence Factor, virB	Positive	Negative
Virulence Factor, virD	Positive	Negative

H. PYLORI ANTIBIOTIC RESISTANCE GENES

	Result	Reference
Amoxicillin	Positive	Negative
<i>Genes associated with amoxicillin resistance</i>		
PBP1A S414R	Present	
PBP1A T556S	Absent	
PBP1A N562Y	Absent	

	Result	Reference
Clarithromycin	Positive	Negative
<i>Genes associated with clarithromycin resistance</i>		
A2142C	Absent	
A2142G	Absent	
A2143G	Present	

	Result	Reference
Fluoroquinolones	Negative	Negative
<i>Genes associated with fluoroquinolone resistance</i>		
gyrA N87K	Absent	
gyrA D91N	Absent	
gyrA D91G	Absent	
gyrB S479N	Absent	
gyrB R484K	Absent	

	Result	Reference
Tetracycline	Negative	Negative
<i>Genes associated with tetracycline resistance</i>		
A926G	Absent	
AGA926-928TTC	Absent	