



Sales & Service

Ima Doctor
555 Main St
Alpharetta GA 30004

Accession: **20150401001**
Patient: **John GPP-Sample-Report**
Date of Birth: **01/01/1990**
Collection Date: **11/03/2016**
Completion Date: **11/04/2016**
Ref ID: **ABC123456**


2001 Westside Pkwy Ste 240
Alpharetta GA 30004
(855)374-5227 option 2

GI Pathogen Plus Profile

Bacteria and Toxins by PCR	Units	Assay Range	Cutoff	Quantitation	Result
<i>Campylobacter jejuni</i>	MFI	1-10000	149	222	Positive
<i>Clostridium difficile</i> (C. difficile) toxin A	MFI	1-10000	249	486	Positive
<i>Clostridium difficile</i> (C. difficile) toxin B	MFI	1-10000	249	201	Negative
Enterotoxigenic <i>E. coli</i> (ETEC) heat labile (LT)	MFI	1-10000	199	120	Negative
Enterotoxigenic <i>E. coli</i> (ETEC) heat stable (ST)	MFI	1-10000	119	111	Negative
<i>Escherichia coli</i> O157:H7	MFI	1-10000	99	395	Positive
<i>Escherichia coli</i> stx 1	MFI	1-10000	199	114	Negative
<i>Escherichia coli</i> stx 2	MFI	1-10000	199	10	Negative
<i>Helicobacter pylori</i> (H. pylori)	MFI	1-5000	99	1000	Positive
<i>H. pylori</i> virulence factor <i>cagA</i>	MFI	1-5000	199	521	Positive
<i>H. pylori</i> virulence factor <i>iceA</i>	MFI	1-5000	1249	100	Negative
<i>H. pylori</i> virulence factor <i>oipA</i>	MFI	1-5000	1499	300	Negative
<i>H. pylori</i> virulence factor <i>vacA</i>	MFI	1-5000	180	695	Positive
<i>H. pylori</i> Clarithromycin resistance	MFI	1-5000	1499	350	Susceptible
<i>H. pylori</i> stool antigen ¹	ng/mL	0.00-1000.00	7.99	0.11	Negative
<i>Listeria monocytogenes</i>	MFI	1-10000	349	100	Negative
<i>Salmonella enterica</i> subsp. Enterica	MFI	1-10000	349	65	Negative
<i>Shigella flexneri</i>	MFI	1-10000	149	74	Negative
Antibiotic Resistance by PCR *(see comment)	Units	Assay Range	Cutoff	Quantitation	Result
β-lactamase (bl2b-TEM)	MFI	1-10000	549	485	Susceptible
Fluoroquinolones (<i>qnrA</i>)	MFI	1-10000	849	20	Susceptible
Imidazole (<i>nimA</i>)	MFI	1-10000	2499	222	Susceptible
Nitroimidazole (<i>nimD</i>)	MFI	1-10000	1099	475	Susceptible
Tetracycline (<i>tetA(P)</i>)	MFI	1-10000	999	30	Susceptible
Vancomycin (<i>vanA/vanB</i>)	MFI	1-10000	999	2	Susceptible
GI Health Markers	Units	Normal Range	Cutoff	Quantitation	Result
Anti-gliadin IgA	U/mL	0.0-100.0	100	0.4	Normal
Calprotectin	µg/g	0.0-50.0		55.0	High
Elastase	µg/mL	2.0-2000.0 ²	200	1.9	Low
Fecal fat	milliunit/mL	0.0-400.0	400	2.5	Normal
Fecal occult blood (FOBT)			349		Negative
Lactoferrin	ng/mL	0.0-7.0	0	1.0	Normal
(Secretory) sIgA1	ng/mL	0.0-1000.0	0	4152.0	High
(Secretory) sIgA2	ng/mL	0.0-1000.0	0	3592.0	High

This test was developed and its performance characteristics determined by DRG Laboratory. Diagnosis and treatment are the responsibility of the ordering physician.

Medical Director - Bernadette M. Mandes Wildemore, MD
CLIA # 11D2052150

 DRG laboratory <small>Diagnostic Reference Group, LLC</small>	Sales & Service Ima Doctor 555 Main St Alpharetta GA 30004		Accession: 20150401001 Patient: John GPP-Sample-Report Date of Birth: 01/01/1990 Collection Date: 11/03/2016 Completion Date: 11/04/2016 Ref ID: ABC123456
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Parasites by PCR	Units	Assay Range	Cutoff	Quantitation	Result
<i>Blastocystis hominis</i>	MFI	1-10000	349	359	Positive
<i>Cryptosporidium spp. (C. parvum, C. hominis)</i>	MFI	1-10000	349	100	Negative
<i>Entamoeba histolytica</i>	MFI	1-10000	129	47	Negative
<i>Giardia spp.</i>	MFI	1-10000	119	15	Negative
<i>Trichomonas spp.</i>	MFI	1-10000	349	175	Negative

Fungi by PCR	Units	Assay Range	Cutoff	Quantitation	Result
<i>Aspergillus spp.</i>	MFI	1-10000	399	249	Negative
<i>Candida spp.</i>	MFI	1-10000	999	845	Negative

Comments: Information on Specific Testing and Methodologies Used

Please note: The results indicated on this report represent organisms that may be commensal and normally found in a given patient, particularly given his or her environmental exposures. A positive value does not confirm a specific illness. Values given here should always be interpreted in concert with the greater clinical picture for an individual patient. Any laboratory value should never be taken in isolation without careful clinical judgement.

¹: The *Helicobacter pylori* (*H. pylori*) value can remain positive even in the absence of an active infection. The *H. pylori* stool antigen functions to determine if the infection is **active or current**; therefore, favoring treatment.

Cutoff

this is the quantitative number at which our Laboratory calls a positive. It is subject to change based on scientific criteria.

MFI = Median Fluorescence Intensity

The MFI for each assay value is directly proportional to the amount of target gene or protein bound to the microsphere for the testing methodology DRG has designed. Positive MFI value indicates the presence of the given, tested microbial DNA, protein, or gene resistance.

GI Health Markers

Cut off values for each analyte = the upper limit of the normal range as listed on the report.

² **Reference range for Elastase**

- >200 µg/mL: normal value
- 100-200 µg/mL: low to moderate exocrine pancreatic insufficiency
- <100 µg/mL: exocrine pancreatic insufficiency

Parasites and Fungi:

Trichomonas spp. (incl. *T. vaginalis*, *P. hominis*, *T. tenax*)

The cut off values for specific parasites and fungi in this section are as follows:

- *Aspergillus spp.*: >= 400 MFI will result in a positive value, however, >=1500 may represent clinically significant value.
- *Candida spp.*: >= 1000 MFI will result in a positive value, however, >=1500 may represent clinically significant value.

Antibiotic resistance (AR):

- β-lactamase (bl2b-TEM): includes penicillin, carbapenam, and cephalosporin
- Flouroquinolones (*qnrA*): includes ciprofloxacin and lexofloxacin
- Imidazole (*nimA*): includes metronidazole, tinidazole, and ornidazole
- Nitoimidazole (*nimD*): includes metronidazole, tinidazole, and ornidazole

Please note: The reported MFI values for Imidazole (*nimA*) between 350-2499 may represent intermediate resistance and should be corroborated with careful clinical judgment and patient symptoms prior to treatment with this antibiotic.

References are available on our website at: <https://www.drglab.com/references.html>

More information on specific analytes are available at our website at: <https://www.DRGlab.com/wiki/>