



5895 Shiloh Rd, Ste 101  
Alpharetta GA 30005  
877-485-5336

## GI-MAP™ DNA Stool Analysis

Patient: Joanna Giakoumatos  
Collected: 7/24/2022  
DOB: 9/5/1995

Accession: 20220801-0497  
Received: 8/1/2022  
Completed: 8/11/2022

Ordered By Ameeta Gajjar

### Pathogens

#### Bacterial Pathogens

|                                        | Result | Normal  |
|----------------------------------------|--------|---------|
| <i>Campylobacter</i>                   | <dl    | <1.00e3 |
| <i>C. difficile</i> , Toxin A          | <dl    | <1.00e3 |
| <i>C. difficile</i> , Toxin B          | <dl    | <1.00e3 |
| <i>Enterohemorrhagic E. coli</i>       | <dl    | <1.00e3 |
| <i>E. coli</i> O157                    | <dl    | <1.00e3 |
| <i>Enteroinvasive E. coli/Shigella</i> | <dl    | <1.00e2 |
| <i>Enterotoxigenic 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>         | <dl    | <1.00e5 |

#### Parasitic Pathogens

|                              | Result | Normal  |
|------------------------------|--------|---------|
| <i>Cryptosporidium</i>       | <dl    | <1.00e6 |
| <i>Entamoeba histolytica</i> | <dl    | <1.00e4 |
| <i>Giardia</i>               | <dl    | <5.00e3 |

#### Viral Pathogens

|                         | Result | Normal   |
|-------------------------|--------|----------|
| <i>Adenovirus</i> 40/41 | <dl    | <1.00e10 |
| <i>Norovirus</i> GI/II  | <dl    | <1.00e7  |

**H. pylori**

|                            | Result       | Normal           |
|----------------------------|--------------|------------------|
| <i>Helicobacter pylori</i> | <b>1.7e2</b> | <b>&lt;1.0e3</b> |
| Virulence Factor, babA     | <b>N/A</b>   | <b>Negative</b>  |
| Virulence Factor, cagA     | <b>N/A</b>   | <b>Negative</b>  |
| Virulence Factor, dupA     | <b>N/A</b>   | <b>Negative</b>  |
| Virulence Factor, iceA     | <b>N/A</b>   | <b>Negative</b>  |
| Virulence Factor, oipA     | <b>N/A</b>   | <b>Negative</b>  |
| Virulence Factor, vacA     | <b>N/A</b>   | <b>Negative</b>  |
| Virulence Factor, virB     | <b>N/A</b>   | <b>Negative</b>  |
| Virulence Factor, virD     | <b>N/A</b>   | <b>Negative</b>  |

**Normal Bacterial Flora**

|                                     | Result         |            | Normal                  |
|-------------------------------------|----------------|------------|-------------------------|
| <i>Bacteroides fragilis</i>         | <b>1.34e10</b> |            | <b>1.60e9 - 2.50e11</b> |
| <i>Bifidobacterium spp.</i>         | <b>6.54e9</b>  |            | <b>&gt;6.70e7</b>       |
| <i>Enterococcus spp.</i>            | <b>4.20e6</b>  |            | <b>1.9e5 - 2.00e8</b>   |
| <i>Escherichia spp.</i>             | <b>2.39e9</b>  |            | <b>3.70e6 - 3.80e9</b>  |
| <i>Lactobacillus spp.</i>           | <b>2.57e6</b>  |            | <b>8.6e5 - 6.20e8</b>   |
| <i>Clostridia (class)</i>           | <b>4.22e6</b>  | <b>Low</b> | <b>5.00e6 - 5.00e7</b>  |
| <i>Enterobacter spp.</i>            | <b>9.36e5</b>  | <b>Low</b> | <b>1.00e6 - 5.00e7</b>  |
| <i>Akkermansia muciniphila</i>      | <b>3.89e4</b>  |            | <b>1.00e1 - 5.00e4</b>  |
| <i>Faecalibacterium prausnitzii</i> | <b>5.42e5</b>  |            | <b>1.00e3 - 5.00e8</b>  |

**Phyla Microbiota**

|                                       | Result         |            | Normal                   |
|---------------------------------------|----------------|------------|--------------------------|
| <i>Bacteroidetes</i>                  | <b>1.29e11</b> | <b>Low</b> | <b>8.61e11 - 3.31e12</b> |
| <i>Firmicutes</i>                     | <b>4.73e10</b> | <b>Low</b> | <b>5.70e10 - 3.04e11</b> |
| <i>Firmicutes:Bacteroidetes Ratio</i> | <b>0.37</b>    |            | <b>&lt;1.00</b>          |

**Opportunistic Bacteria****Additional Dysbiotic/Overgrowth Bacteria**

|                                     | Result |      | Normal  |
|-------------------------------------|--------|------|---------|
| <i>Bacillus</i> spp.                | 7.75e4 |      | <1.50e5 |
| <i>Enterococcus faecalis</i>        | 5.00e5 | High | <1.00e4 |
| <i>Enterococcus faecium</i>         | <dl    |      | <1.00e4 |
| <i>Morganella</i> spp.              | <dl    |      | <1.00e3 |
| <i>Pseudomonas</i> spp.             | <dl    |      | <1.00e4 |
| <i>Pseudomonas aeruginosa</i>       | <dl    |      | <5.00e2 |
| <i>Staphylococcus</i> spp.          | <dl    |      | <1.00e4 |
| <i>Staphylococcus aureus</i>        | 1.32e2 |      | <5.00e2 |
| <i>Streptococcus</i> spp.           | <dl    |      | <1.00e3 |
| <i>Methanobacteriaceae</i> (family) | 7.92e6 |      | <5.00e9 |

**Potential Autoimmune Triggers**

|                                                | Result |      | Normal  |
|------------------------------------------------|--------|------|---------|
| <i>Citrobacter</i> spp.                        | 2.53e3 |      | <5.00e6 |
| <i>Citrobacter freundii</i>                    | <dl    |      | <5.00e5 |
| <i>Klebsiella</i> spp.                         | 4.74e4 | High | <5.00e3 |
| <i>Klebsiella pneumoniae</i>                   | 7.34e2 |      | <5.00e4 |
| <i>M. avium</i> subsp. <i>paratuberculosis</i> | <dl    |      | <5.00e3 |
| <i>Prevotella</i> spp.                         | 3.91e6 |      | <1.00e8 |
| <i>Proteus</i> spp.                            | <dl    |      | <5.00e4 |
| <i>Proteus mirabilis</i>                       | <dl    |      | <1.00e3 |
| <i>Fusobacterium</i> spp.                      | 2.33e4 |      | <1.00e8 |

**Fungi/Yeast**

|                            | Result |  | Normal  |
|----------------------------|--------|--|---------|
| <i>Candida</i> spp.        | <dl    |  | <5.00e3 |
| <i>Candida albicans</i>    | <dl    |  | <5.00e2 |
| <i>Geotrichum</i> spp.     | <dl    |  | <3.00e2 |
| <i>Microsporidium</i> spp. | <dl    |  | <5.00e3 |
| <i>Rhodotorula</i> spp.    | <dl    |  | <1.00e3 |

**Viruses**

|                    | Result |  | Normal  |
|--------------------|--------|--|---------|
| Cytomegalovirus    | <dl    |  | <1.00e5 |
| Epstein Barr Virus | <dl    |  | <1.00e7 |

**Parasites**

| <b>Protozoa</b>                 | Result | Normal  |
|---------------------------------|--------|---------|
| <i>Blastocystis hominis</i>     | <dl    | <2.00e3 |
| <i>Chilomastix mesnili</i>      | <dl    | <1.00e5 |
| <i>Cyclospora spp.</i>          | <dl    | <5.00e4 |
| <i>Dientamoeba fragilis</i>     | <dl    | <1.00e5 |
| <i>Endolimax nana</i>           | <dl    | <1.00e4 |
| <i>Entamoeba coli</i>           | <dl    | <5.00e6 |
| <i>Pentatrichomonas hominis</i> | <dl    | <1.00e2 |

**Worms**

|                              | Result       | Normal       |
|------------------------------|--------------|--------------|
| <i>Ancylostoma duodenale</i> | Not Detected | Not Detected |
| <i>Ascaris lumbricoides</i>  | Not Detected | Not Detected |
| <i>Necator americanus</i>    | Not Detected | Not Detected |
| <i>Trichuris trichiura</i>   | Not Detected | Not Detected |
| <i>Taenia spp.</i>           | Not Detected | Not Detected |

**Intestinal Health**

| <b>Digestion</b> | Result | Normal    |
|------------------|--------|-----------|
| Steatocrit       | <dl    | <15 %     |
| Elastase-1       | 285    | >200 ug/g |

**GI Markers**

|                    | Result | Normal     |
|--------------------|--------|------------|
| b-Glucuronidase    | 1458   | <2486 U/mL |
| Occult Blood - FIT | 0      | <10 ug/g   |

**Immune Response**

|                  | Result |     | Normal          |
|------------------|--------|-----|-----------------|
| Secretory IgA    | 440    | Low | 510 - 2010 ug/g |
| Anti-gliadin IgA | 85     |     | 0 - 157 U/L     |

**Inflammation**

|              | Result | Normal    |
|--------------|--------|-----------|
| Calprotectin | 4      | <173 ug/g |

**Add-on Test**

|         | Result | Normal    |
|---------|--------|-----------|
| Zonulin | 84.7   | <107 ng/g |

**Antibiotic Resistance Genes, phenotypes**

| <b>Helicobacter</b>     |     | <b>Result</b>     |     | <b>Expected Result</b> |     |
|-------------------------|-----|-------------------|-----|------------------------|-----|
| <b>Amoxicillin</b>      |     | <b>N/A</b>        |     | Negative               |     |
| A926G                   | N/A | AGA926-928TTC N/A |     |                        |     |
| <b>Clarithromycin</b>   |     | <b>N/A</b>        |     | Negative               |     |
| A2142G                  | N/A | A2142C            | N/A | A2143G                 | N/A |
| <b>Fluoroquinolones</b> |     | <b>N/A</b>        |     | Negative               |     |
| gyrA N87K               | N/A | gyrA D91N         | N/A | gyrA D91G              | N/A |
| gyrB S479N              | N/A | gyrB R484K        | N/A |                        |     |
| <b>Tetracycline</b>     |     | <b>N/A</b>        |     | Negative               |     |
| PBP1A S414R             | N/A | PBP1A T556S       | N/A | PBP1A N562Y            | N/A |