

Ordering Physician:  
Metamatrix

1234 Main St.  
Anywhere, GA 30096

Accession Number: **A1203010280**

Reference Number:

Patient: Sample Report

Age: 50 Sex: Female

Date of Birth: 02/05/1962

Date Collected: 2/28/12

Date Received: 3/1/12

Report Date: 3/2/12

Telephone: (770) 446-4583

Fax: (770) 441-2237

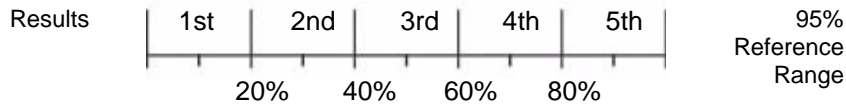
Reprinted: 10/22/12

Comment:

## 2120 Gastrointestinal Function Chemistries Profile

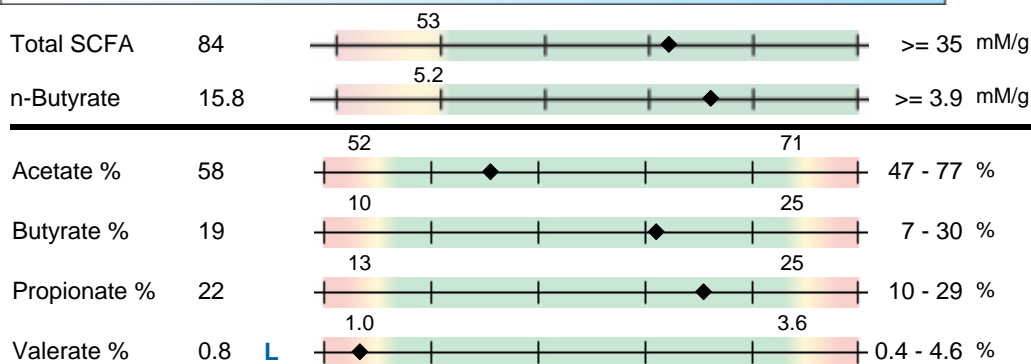
Methodology: DNA Analysis, GC/MS, Microscopic,  
Colorimetric, Automated Chemistry, ELISA

### Percentile Ranking by Quintile



Consistency = Formed/Norm

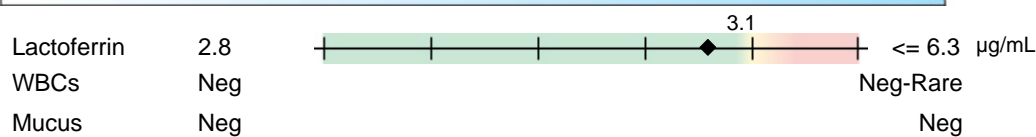
### Beneficial SCFA



### Beneficial SCFA

**Short chain fatty acids (SCFA)** are produced by bacterial fermentation of dietary polysaccharides and fiber. The product, N-butyrate, is taken up and used to sustain the normal activity of colonic epithelial cells. Butyrate has been shown to lower the risk of colitis and colorectal cancer. A healthy balance of GI microbes depends on production of SCFA by or specie to allow the normal growth of another on in a complex cross-feeding network.

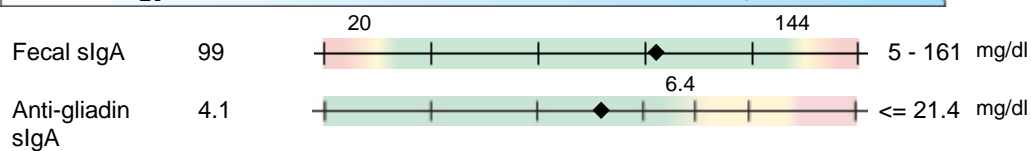
### Inflammation



### Inflammation

**Lactoferrin**, an iron-binding glycoprotein, is released in IBD but not in non-inflammatory IBS. High levels are found in Crohn's, UC or infection. WBC's are elevated in general inflammation/infection. Mucus is often visualized in acute GI inflammation.

### Immunology



### Immunology

High fecal sIgA indicates immune system reactions to the presence of antigens from bacteria, yeast or other microbes. Low sIgA can result from stress or malnutrition. Anti-gliadin sIgA is a screening marker for gluten sensitivity.

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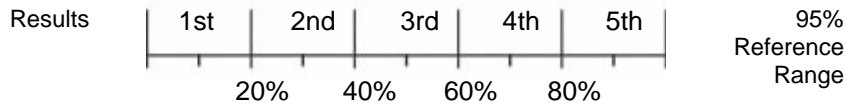
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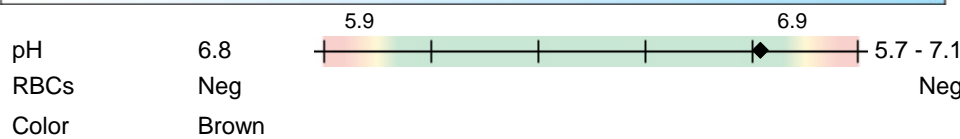
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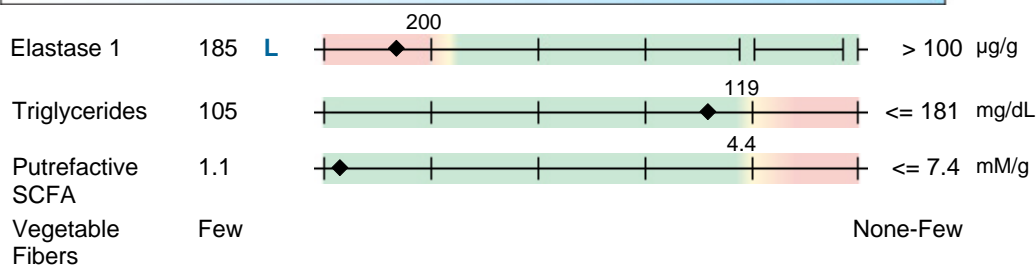
### Additional Tests



### Additional Tests

**pH** is influenced by numerous factors, but it is strongly related to the bacterial release of pH-lowering organic acids and pH-raising ammonia. Positive **RBCs** can signify GI tract bleeding. **Color** (other than brown) abnormalities can be due to upper GI bleeding, or bile duct blockage, steatorrhea or antibiotic use.

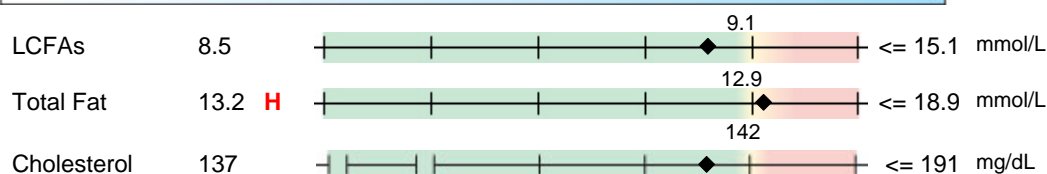
### Digestion



### Digestion

**Pancreatic elastase 1** levels below 100 are strongly correlated with severe pancreatic insufficiency; levels of 100-200 identify moderate pancreatic insufficiency. High triglycerides signify fat maldigestion. Putrefactive SCFA are a result of bacterial fermentation of undigested protein. High numbers of vegetable fibers indicate maldigestion.

### Absorption



### Absorption

High **LCFA** indicates fat malabsorption due to pancreatic or biliary insufficiency, or acute bacterial infection that produces intestinal cell destruction. High total fat usually signals malabsorption, as does elevated fecal cholesterol.

UC\*\* = Unable to Calculate

Decisions involving diagnosis and treatment are the responsibility of the clinician.