



Summary of the RSM Total GI Test:

A fully integrated platform combining: Delivering a complete, clinically actionable view of gastrointestinal health

- Molecular diagnostics (PCR)
- Functional microbiology (culture + sensitivities)
- Direct visualization (microscopy)
- Functional biomarkers (ELISA + chemistry)

Details:

- **Dual Detection Technology (PCR + Culture)**
Combines advanced PCR-based molecular diagnostics with traditional culture techniques, enabling both high-sensitivity detection and functional organism assessment.
- **Comprehensive Pathogen Identification**
Detects viruses, bacteria, fungi, and parasites using:
 - PCR for fast, sensitive identification
 - Culture for viability and clinical relevance
 - Microscopy for direct parasite visualization, improving detection of protozoa and helminths
- **Advanced Sensitivity Testing**
Positive bacterial and fungal cultures are evaluated for:
 - Antibiotic susceptibility
 - Natural agent sensitivity (herbals, nutraceuticals), enabling truly personalized antimicrobial therapy
- **Clinically Actionable Microbiome Insights**
Differentiates:
 - Pathogenic organisms
 - Opportunistic overgrowth
 - Commensal imbalances, supporting precision treatment strategies rather than generic protocols
- **Extensive Digestive Function Markers**
Broad menu of biomarkers covering all pillars of gastrointestinal health:
 - Digestion & Absorption (e.g., elastase, fat markers)
 - Inflammation & Immune Activation (e.g., calprotectin, sIgA)
 - Gut Barrier Integrity (e.g., zonulin)
 - Metabolic Activity (e.g., short-chain fatty acids)
 - Microbial Activity
 - *H. pylori* antigen
- **Customizable Panel Design**
Flexible biomarker selection allows clinicians to tailor testing based on:
 - Clinical presentation
 - Functional medicine approach
 - Budget considerations
- **Bridging Functional & Conventional Medicine**
Integrates functional biomarkers + conventional microbiology, making it useful for:
 - Integrative practitioners
 - Gastroenterologists
 - Primary care physicians



- Combines molecular detection, culture, microscopy, and functional biomarkers in a single gastrointestinal assessment.
- Supports clinical interpretation of gastrointestinal symptoms by evaluating infectious, dysbiotic, inflammatory, immune, and absorptive markers together.
- Includes culture-based susceptibility testing for positive bacterial and fungal isolates, adding functional relevance beyond detection alone.
- Includes natural-agent susceptibility testing for positive isolates, with testing against 10+ naturalagents, etc.
- Reports antibiotic resistance genes in the PCR panel, which adds molecular context for resistance-related decision-making.
- Provides direct parasitologic microscopy in addition to PCR, which can improve organism characterization.
- Measures key gastrointestinal biomarkers including fecal calprotectin, pancreatic elastase, secretory IgA, zonulin, and anti-gliadin IgA.
- Differentiates pathogenic, opportunistic, dysbiotic, and commensal organisms, improving interpretability.
- Supports diagnostic workup and treatment selection in gastroenterology, primary care, integrative medicine, and functional medicine settings.

Natural Agent Sensitivity Testing Disclaimer

Natural agent sensitivity testing is performed *in vitro* (laboratory testing) and is intended to provide supplemental information for healthcare providers. Laboratory susceptibility results may not directly predict clinical effectiveness or patient outcomes. Natural agent sensitivity results should be interpreted in conjunction with the patient's clinical presentation, medical history, and other diagnostic findings. This testing is not intended to recommend, endorse, or replace standard medical therapy or evidence-based clinical judgment.