

BreathTracker™

DIGITAL MICROLYZER

Simple.

Breath testing with QuinTron's instrumentation and collection devices provide economic and safe alternatives compared to more invasive procedures such as biopsies and/or obtaining asparate for culturing.

Accurate.

QuinTron instrumentation are the only devices available with the ability to measure hydrogen and methane in a single sample of alveolar air, increasing the accuracy of the breath test. All instrument are easily upgradable as new SensorPaks™ become available, allowing additional trace gases to be measured.

Reliable.

QuinTron offers the only instrumentation available using solid-state sensors that will never need regular replacement, unlike fuel sensors that may need to be replaced periodically. All instruments have an internal pump that flushes out the previous patient sample. Since the patients never come in contact with the instrument you can be certain that residual gas and cross contamination will never be an issue.



Use with DataTracker™ software for maximum efficiency and accuracy.



Simple. Accurate. Reliable

SC DP H2+ H2

	SC	DP	H2+	H2
Breath Hydrogen Analysis	●	●	●	●
Breath Methane Analysis	●	●		
Sample Correction	●		●	
Automatic Flow Monitoring	●	●	●	●
Simple Push Button Control	●	●	●	●
Upgradable SensorPaks™	●	●	●	●
Three-Year Warranty	●	●	●	●
DataTracker™ Compatible	●	●	●	●
Available Take Home Kits	●		●	
Results in less than 50sec.	●	●	●	●
Solid-State Sensor	●	●	●	●
Single Alphanumeric Data Display	●	●	●	●



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The Importance of Methane Breath Testing

Breath tests can be valuable in helping to evaluate functional bloating, diarrhea, constipation and suspected malabsorption. These tests are a simple and safe alternatives compared to more invasive procedures such as biopsies and/or obtaining asparate for culturing.

Among other by products methane and hydrogen gases are produced by bacteria in the GI tract by the breakdown of carbohydrates. According to research done in the 1970's, and repeated in 2006, approximately 35% of healthy adult subjects are methane producers (breath methane > 1 ppm above atmospheric methane levels).¹ Corazza et al² reported that in 11 of 32 (34%) of lactose intolerant patients with a negative hydrogen breath test, the methane percentage increase after a lactose challenge was greater than 100%. In the same study, out of 13 subjects having a false negative breath hydrogen response to lactulose, 11 subjects had a methane percentage increase greater than 100%.

Methanogenic bacteria are independent of hydrogen-producing bacteria; therefore, methane determination along with the measurement of hydrogen is compulsory in the study of lactose intolerance³ and other carbohydrate breath tests.

Breath testing to aid in the diagnosis of small intestinal bacterial overgrowth (SIBO) may provide a framework for understanding irritable bowel syndrome (IBS) patients. The type of gas produced by bacteria in the gut may be an important factor in this understanding. Recent work has demonstrated that among IBS subjects, methane on lactulose breath test is associated with constipation predominance both subjectively and objectively.⁴ The degree of methane production on breath test appears to be related to the degree of constipation. Methane appears to slow intestinal transit and constipation appears more common among methane-positive patients.⁵ These results indicate that the response to lactulose depends on breath methane-producing status.

QuinTron breath-testing devices are the only breath-testing instruments that offer the ability to measure both hydrogen and methane in a single sample of alveolar air, increasing the accuracy of the breath test. Evaluating both hydrogen and methane should add reliability to the breath test to help properly diagnose patients.

Contact QuinTron at (800) 542-4448 or <http://www.quintron-usa.com> for additional information, and to determine why the Business of Breath Testing is good for your patients and great for your practice.

¹Levitt MD, Furne JK, Kuskowski M, Ruddy J. Stability of human methanogenic flora over 35 years and a review of insights obtained from breath methane measurements. *Clin Gastroenterolo Hepatol*. 2006 Feb;4(2):123-9

²Corazza GR, Benati G, Strocchi A, Malservisi S, Gasbarrini G. The possible role of breath methane measurement in detecting carbohydrate malabsorption. *J Lab Clin Med*. 1994 Nov;124(5):695-700.

³Tormo R, Bertaccini A, Conde M, Infante D, Cura I. Methane and hydrogen exhalation in normal children and in lactose malabsorption. *Early Hum Dev*. 2001 Nov; 65 Suppl:S165-72.

⁴Chatterjee S, Park S, Low K, Kong Y, Pimentel M. The degree of breath methane production in IBS correlates with the severity of constipation. *Am J Gastroenterol* 2007;102:1-5.

⁵ Bratten JR, Jones MP. Small intestinal motility. *Curr Opin Gastroenterol*. 2007 Mar;23(2):127-33.



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