



## BreathTracker DP

### BREATH HYDROGEN AND METHANE ANALYSIS

The capability to detect methane increases the ability to accurately diagnose and eliminate potential false negatives.

Studies have demonstrated the importance of hydrogen (H<sub>2</sub>) and (CH<sub>4</sub>) methane production, indicating approximately 35% of healthy adult subjects are methane producers when testing for carbohydrate malabsorption and small intestinal bacterial overgrowth (SIBO).

*(Reference: Clin Gastroenterolo Hepatol 2006 Feb;4(2):12390)*

The BreathTracker DP measures both hydrogen and methane in a single sample of alveolar air. Several studies have found that significant volumes of methane and hydrogen are produced when bacteria metabolize sugar in the intestinal tract, and recent literature has focused on the interdependence and interaction of hydrogen and methane production in the colon. The reliability of the test is significantly improved when both H<sub>2</sub> and CH<sub>4</sub> are measured in the same sample and the temporal appearance of breath CH<sub>4</sub> and H<sub>2</sub> may indicate the location of the bacterial infection in the small intestine.

The BreathTracker DP separates the components using the basic principle of gas chromatography. Room air is used as the carrier gas, which is pumped through the system where the hydrogen and methane are separated from each other and from all other reducing gases. The hydrogen and methane are then carried sequentially past a solid-state sensor that is affected only by reducing gases.

The signals are then processed and the sample concentrations are shown on the instrument's display in parts per million (ppm).

#### Catalog Numbers:

QT05002-M - BreathTracker Digital DP, 120V/60Hz

QT05003-M - BreathTracker Digital DP, 230-240V/50Hz

#### SPECIFICATIONS:

Resolution: 1ppm H<sub>2</sub> and CH<sub>4</sub>

Accuracy: ± 2-3 ppm or 5% of full range for H<sub>2</sub> and CH<sub>4</sub>

Linear Range: 2-150ppm H<sub>2</sub>; 2-75ppm CH<sub>4</sub>