QUINTRON Breath Testing Experts Since 1962

LifeExtension National Diagnostics, Inc.

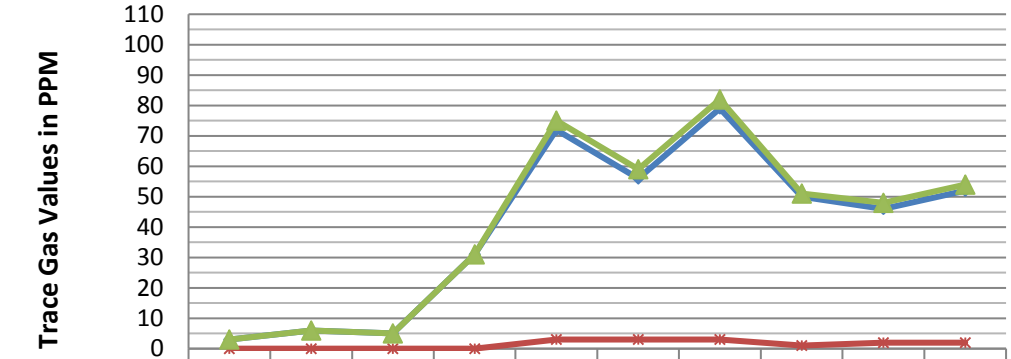
Analytical Report from Breath Gas Values
Test Type: Small Intestinal Bacterial Overgrowth (SIBO)
Substrate Used: LACTULOSE

Name:
D.O.B.:
Date Samples Collected: 9/2/2017
Date of Analysis: 9/11/2017

Sample Analysis Chart

Sample #	Sample	ppm H_2	ppm CH_4	Combined	CO_2 %	Time
1	Baseline	3	0	3	3.20	8:00
2	20 MIN	6	0	6	3.60	8:20
3	40 MIN	5	0	5	3.00	8:43
4	60 MIN	31	0	31	1.40	9:00
5	80 MIN	72	3	75	3.50	9:25
6	100 MIN	56	3	59	3.60	9:40
7	120 MIN	79	3	82	3.60	10:00
8	140 MIN	50	1	51	3.80	10:22
9	160 MIN	46	2	48	3.10	10:40
10	180 MIN	52	2	54	3.50	11:00

Graphical Representation



	8:00	8:20	8:43	9:00	9:25	9:40	10:00	10:22	10:40	11:00
Hydrogen	3	6	5	31	72	56	79	50	46	52
Methane	0	0	0	0	3	3	3	1	2	2
Combined	3	6	5	31	75	59	82	51	48	54

For proper interpretation, results should be viewed in light of additional clinical information, such as symptoms and medical history.
We encourage you to call Life Extension to discuss your results with one of our Wellness Specialists: 1-800-208-3444.

Interpretive Guidance:

- **Hydrogen:** A rise in hydrogen of ≥20ppm over the lowest of any prior values within the first 120 min may suggest the presence of SIBO.*
- **Methane:** A rise in methane of ≥12ppm over the lowest of any prior values within the first 120 min may suggest the presence of SIBO.*
- **Combined hydrogen and methane:** An increase in the sum of hydrogen + methane of ≥15ppm from the lowest of any prior sum within the first 120min may suggest the presence of SIBO.*
- **Elevated baseline hydrogen or methane**: An elevated value that remains steady, or increases within the first 120 min of the test may also indicate a positive SIBO test.

*Lactulose typically enters the large intestine between 90-120min; therefore, it is normal for gas levels to increase between 90-120min and to stay elevated as the bacteria in the colon begin to ferment the lactulose.

Note: Hydrogen (H2) and Methane (CH4) value corrections are based on CO2 content in the samples. CO2 is not used for diagnosis, only for quality assurance of samples. Typically, an adequate sample is 1.5% CO2 and above.

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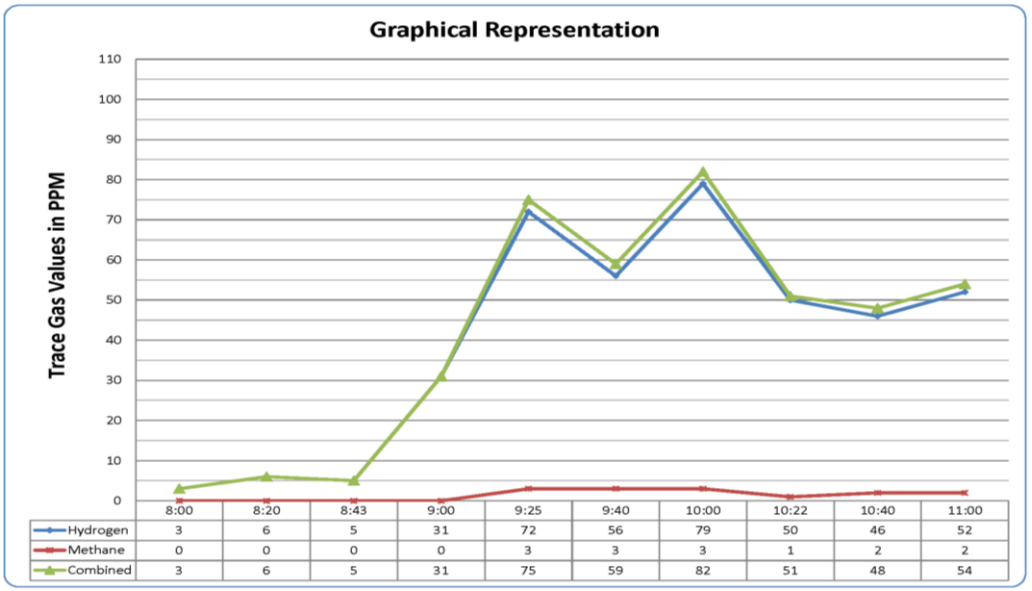
Substrate Used: LACTULOSE

EXAMPLE of a typical **positive** SIBO test (other patterns can exist that indicate a positive)*

A positive SIBO test will typically show an increase in hydrogen and/or methane before 90-120min.

Often there is a second peak in gasses as the lactulose enters the large intestine.

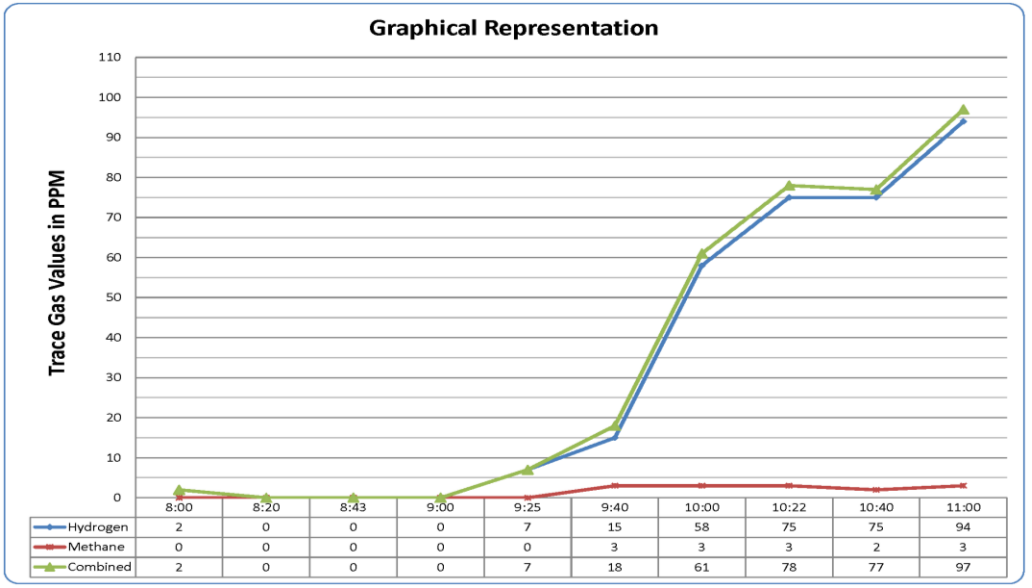


	8:00	8:20	8:43	9:00	9:25	9:40	10:00	10:22	10:40	11:00
Hydrogen	3	6	5	31	72	56	79	50	46	52
Methane	0	0	0	0	3	3	3	1	2	2
Combined	3	6	5	31	75	59	82	51	48	54

EXAMPLE of a typical **negative** SIBO test

A negative SIBO test will not show a substantial increase in hydrogen or methane before 90-120min.

It is normal for gas levels to increase once the lactulose reaches the large intestines in the latter part of the test.



	8:00	8:20	8:43	9:00	9:25	9:40	10:00	10:22	10:40	11:00
Hydrogen	2	0	0	0	7	15	58	75	75	94
Methane	0	0	0	0	0	3	3	3	2	3
Combined	2	0	0	0	7	18	61	78	77	97

* For proper interpretation, results should be viewed in light of additional clinical information, such as symptoms and medical history.

If you would like to discuss your results, please call Life Extension at 1-800-208-3444.

BreathTrackers Inc. analyzed the breath samples provided by customer.
No diagnosis is being made by QuinTron Instrument Company, Inc. or BreathTrackers, Inc. and therefore, shall not be held liable for any further interpretation, final assay decision, or medical treatment provided based on these results.