

Small Intestine Bacterial Overgrowth

23900 Hawthorne Blvd. # 150, Torrance, CA 90505 800-570-2000/307-212-6600 | www.biohealthlab.com for Rebecca Stein

Accession #T044373

Authorizing Clinician Patient Received Samples Reported

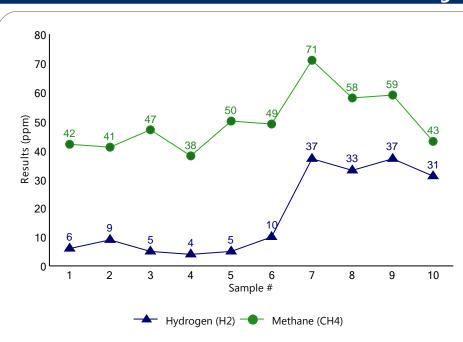
BioHealth Laboratory Rebecca Stein Gender: Female 12/02/2016 12/02/2016

23900 Hawthorne Blvd, Suite 150

Torrance, CA 90505

Reported 12/02/2016 12/02/2016

Small Intestine Bacterial Overgrowth (SIBO)



Collection Time	ppm H2	ppm CH4	Sum H2 and CH4	CO2*
1. Baseline	6	42	48	OK
2. 20 min	9	41	50	OK
3. 40 min	5	47	52	OK
4. 60 min	4	38	42	OK
5. 80 min	5	50	55	OK
6. 100 min	10	49	59	OK
7. 120 min**	37	71	108	OK
8. 140 min	33	58	91	OK
9. 160 min	37	59	96	OK
10. 180 min	31	43	74	OK

^{*} Samples are corrected for Carbon Dioxide (CO2) concentration to account for variations in collection. Invalid samples are categorized as Quantity Not Sufficient (QNS).

^{**120} minutes is the typical time at which the biomarker travels from the small intestine to the colon. However, slow transit times will result in SIBO markers during the last hour.

Summary of Results						
Trace Gas Markers:	Result (ppm):	Guideline:	Interpretation:			
Baseline Hydrogen (H2)	6	Normal: <= 20 ppm	Normal			
Greatest Hydrogen (H2) rise over lowest previous value in first 120 minutes	33	Normal: <= 20 ppm	Elevated			
Greatest Methane (CH4) rise over lowest previous value in first 120 minutes	33	Normal: <= 12 ppm	Elevated			
Greatest rise in the combined sum of Hydrogen (H2) and Methane (CH4) over lowest previous sum in first 120 minutes	66	Normal: <= 15 ppm	Elevated			
Peak Methane (CH4) at any point in the test	71	Normal: <= 3 ppm	Elevated			

Interpretive Guidance

Small Intestinal Bacterial Overgrowth (SIBO) is suspected if one or more of the following criteria are met. These guidelines are for research purposes only. The results should be interpreted by the clinician in the context of the patient's symptoms and other external diagnostic data. It is important to note that, due to slow transit times in some patients, reactions may occur in the final hour of testing.

Elevated Baseline: A baseline hydrogen gas result of greater than or equal to 20 ppm may be an indication of bacterial overgrowth.



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23900 Hawthorne Blvd, Suite 150 DOB: 11/26/1968

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Elevated Hydrogen: In the first 120 minutes after ingesting the solution, an increase in hydrogen gas of greater than or equal to 20 ppm from the lowest previous result may be an indication of bacterial overgrowth.

Elevated Methane: In the first 120 minutes after ingesting the solution, an increase in methane gas of greater than or equal to 12 ppm from the lowest previous result may be an indication of bacterial overgrowth. Additionally, methane results may not increase and instead stay elevated throughout all collections (See Peak Methane).

Elevated Sum of Hydrogen and Methane: In the first 120 minutes after ingesting the solution, an increase in the sum of hydrogen and methane gas results of greater than or equal to 15 ppm from the lowest previous sum may be an indication of bacterial overgrowth.

Peak Methane: In any of the collections, a methane gas result of greater than or equal to 3 ppm may suggest methanogen overgrowth. Studies have shown a relationship between methane production and constipation-predominant IBS.

References:

Torrance, CA 90505

- 1. Dukowicz AC, Lacy BE, Levine GM. Small Intestinal Bacterial Overgrowth: A Comprehensive Review. *Gastroenterology & Hepatology*. 2007;3(2):112-122.
- 2. Saad RJ, Chey WD. Breath Testing for Small Intestinal Bacterial Overgrowth: Maximizing Test Accuracy. *Clinical Gastroenterology and Hepatology*. 2014;12:1964-1972.