

Patient Name: **Robinson, Jade**

Street Address: NA

City, State, ZIP: NA, NA NA

Gender: Female

DOB: 3/20/1988

Age: 30

Patient Phone:

Patient Mobile:

Patient Email:

Facility Name: **Invivo Clinical Ltd.**Clinician Name: **Laboratory Services**

Clinician NPI Number:

Clinician Account #: 3226

Clinician Address: Unit 1, The New Warehouse, Libby's Drive

City, State, ZIP: Stroud, Gloucestershire GL5 1RN

Clinician Phone:

Clinician Fax:

Clinician Email: testresults@invivoclinical.co.uk

Accession Number: **27452**

Date Ordered: 1/24/2019

Date of Service (Collection): 1/22/2019

Date Received: 1/24/2019

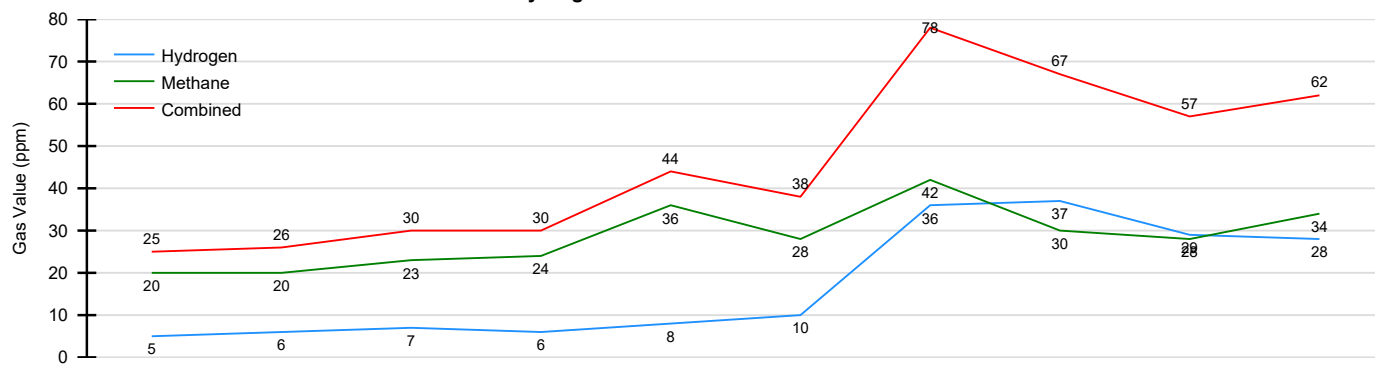
Date Reported (Final): 1/25/2019

MR/Chart Number:

## Summary Report of Hydrogen &amp; Methane Breath Analysis with Carbon Dioxide Correction

Gasses Analyzed	Patient Result	Expected
Increase in Hydrogen (H <sub>2</sub> )	31 ppm (high)	< 20 ppm
Increase in Methane (CH <sub>4</sub> )	22 ppm (high)	< 12 ppm (< 3 ppm <sup>2</sup> )
Increase in combined H <sub>2</sub> & CH <sub>4</sub>	53 ppm (high)	< 15 ppm <sup>3</sup>
Analysis of the data suggests	Bacterial overgrowth is suspected <sup>2,3,4</sup>	

Number	Expected Location	Collection Interval	ppm H <sub>2</sub>	ppm CH <sub>4</sub>	Combined	Sample Normalization <sup>1</sup>	
						ppm CO <sub>2</sub>	fCO <sub>2</sub>
1	Small Intestine	Baseline	5	20	25	4.4	1.25
2		20 Min.	6	20	26	3.6	1.52
3		40 Min.	7	23	30	4.1	1.34
4		60 Min.	6	24	30	3.8	1.44
5		80 Min.	8	36	44	4.2	1.30
6		100 Min.	10	28	38	3.3	1.66
7	Transition	120 Min.	36	42	78	3.8	1.44
8	Large Intestine	140 Min.	37	30	67	4.0	1.37
9		160 Min.	29	28	57	4.3	1.27
10		180 Min.	28	34	62	3.9	1.41

Small Intestinal Bacterial Overgrowth (SIBO)  
Hydrogen & Methane Breath Results

	Baseline	20 Min	40 Min	60 Min	80 Min	100 Min	120 Min	140 Min	160 Min	180 Min
Hydrogen	5	6	7	6	8	10	36	37	29	28
Methane	20	20	23	24	36	28	42	30	28	34
Combined	25	26	30	30	44	38	78	67	57	62

Small Intestine

Transition

Large Intestine

## Important Information - Please Read:

Breath analysis standards for abnormal tests are suggested if an increase of 20ppm for Hydrogen (H<sub>2</sub>), 12ppm for Methane (CH<sub>4</sub>), or a combined 15ppm for Hydrogen (H<sub>2</sub>) & Methane (CH<sub>4</sub>) is detected.

Only the treating clinician is able to determine if there are additional factors that could have a material impact on the results of this analysis.

A diagnosis can only be obtained from a medical professional that combines clinical information with the results of this breath analysis.

The results of this Hydrogen (H<sub>2</sub>) & Methane (CH<sub>4</sub>) breath test should be utilized as a guideline only.

Aerodiagnostics LLC does not have access to patient clinical information that is critical for a diagnosis determination.

## Quality Control:

Aerodiagnostics performs quality control analysis on specimens processed using rigorous standard operating procedures, established in conjunction with Clinical Laboratory Improvement Amendments (CLIA).

Hydrogen (H<sub>2</sub>) & Methane (CH<sub>4</sub>) breath test values are corrected by Aerodiagnostics state-of-the-art solid state sensor technology & scientific algorithm for Carbon Dioxide (CO<sub>2</sub>) content in the samples.<sup>1</sup> The correction factor, f(CO<sub>2</sub>) is used to determine if each sample is valid for analysis. A f(CO<sub>2</sub>) close to 1.00 is indicative of a good alveolar sample, while a factor in excess of 4.00 is indicative of a poor sample.<sup>2</sup> 3 ppm of CH<sub>4</sub> with reported constipation may be suggestive of small intestinal bacterial overgrowth.<sup>3</sup> A combined H<sub>2</sub> + CH<sub>4</sub> increase of 15 ppm or more may be suggestive of small intestinal bacterial overgrowth.<sup>4</sup> Elevated and sustained H<sub>2</sub> and/or CH<sub>4</sub> levels may be suggestive of small intestinal bacterial overgrowth.