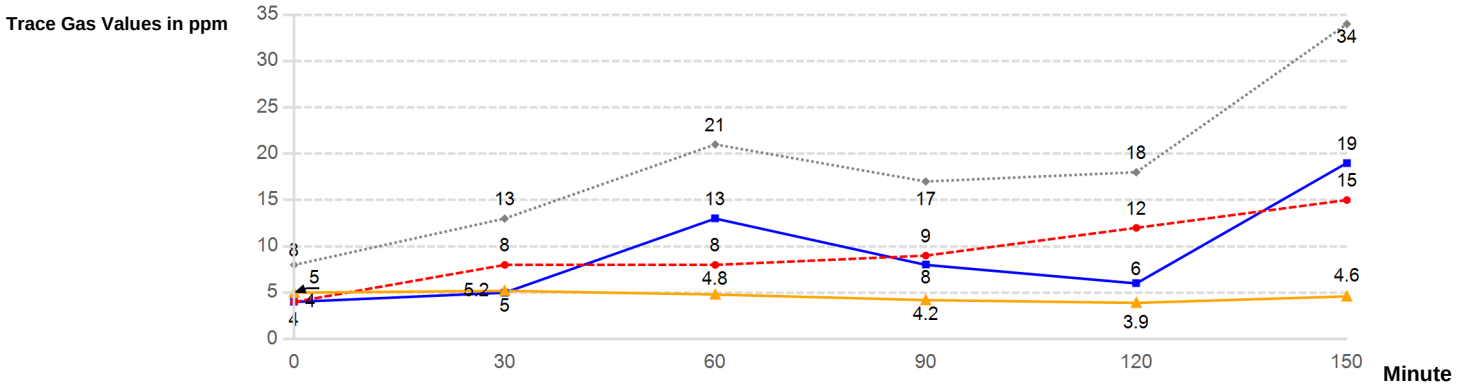
Hydrogen Methane and Carbon dioxide Breath Test Report

Test Number: 1 **Case Number:** **Department:**
Name: **Gender:** **Doctor:**
Height: **Weight:**
Age: 22 **Phone:**
Date of Collecting: 2026/04/22 **Date of Analyzing:** 2026/04/22 16:18:58
Symptom Sign:
Medical History:
Other Information:
Substrate: Lactulose **Dose:** 10g **Test Item:** Small Intestinal Bacterial Overgrowth (SIBO)



H2	4	5	13	8	6	19
CH4	4	8	8	9	12	15
H2+CH4	8	13	21	17	18	34
CO2	5	5.2	4.8	4.2	3.9	4.6

*ppm (Parts Per Millon): meaning one part per million, a unit used to indicate relative detection limits in trace analysis.

Result Data	
(H2)max-(H2)0min	15
(CH4) max-(CH4) 0min	11
(H2+CH4)max-(H2+CH4)0min	26
(CO2) max	5.2%
(CO2) min	3.9%

Any of the following conditions can be confirmed after drinking substrate:

	Analysis Basis	Analysis Conclusion
1	[≤120min, (H2)max]-[=0min, H2]>20ppm	Negative √ Positive
2	[≤120min, (CH4)max]-[=0min, CH4]>12ppm	Negative √ Positive
3	[≤120min, (H2+CH4)max]-[=0min, H2+CH4]>15ppm	Negative √ Positive
4	[=0min, H2]>20ppm and [=30min, H2]>20ppm	Negative √ Positive
5	[=0min, CH4]>12ppm and [=30min, CH4]>12ppm	Negative √ Positive

Conclusion: Flora Balance、NO SIBO, Small Intestinal Bacterial Overgrowth Not Exists

Suggestion: Please combine with clinical diagnosis.Good living habits were maintained, and regular follow-up and return visits were performed.

Notes: Small intestinal bacterial overgrowth refers to a group of clinical syndromes caused by abnormal numbers and types of bacteria in the small intestine due to various reasons, which is a typical imbalance of the intestinal microecology. The "ACG Clinical Guideline" recommends the use of hydrogen breath tests for detection in patients with symptoms (abdominal pain, bloating, abdominal distension, and/or diarrhea); repeated use of antibiotics can be avoided; improvement of symptoms and treatment effectiveness are confirmed by the retesting of the normalization of gas levels. Intestinal Methanogen Overgrowth (IMO), methanogens are not bacteria but archaea, and they can overgrow not only in the small intestine but also in the colon, such as Methanobrevibacter smithii. Studies have shown that methane can enhance contractility and delay the propagation velocity of ileal peristalsis by affecting cholinergic neurons. The "ACG Clinical Guideline" recommends the use of methane breath tests to diagnose patients with symptomatic constipation.

Detector: **Auditor:**

Tips: This report is only responsible for the sample.Please keep the report properly and bring it with you when you return to the doctor!