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-.KIRSTY LAKSTINS-ADAMS KIRSTY LAKSTINS-ADAMS 28 GEOGRAPHE WAY THORNLIE WA 6108

PHOEBE GEORGE 09-Sep-1969 Female

129A GUILDFORD ROAD MAYLANDS WA 6051

LAB ID : 3962962 UR NO. : 6249733 Collection Date : 27-Feb-2024 Received Date: 29-Feb-2024



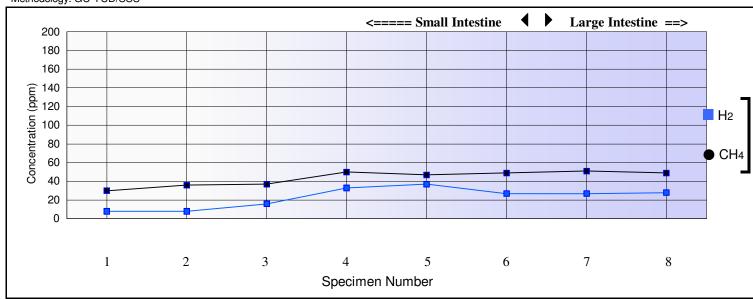
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LACTULOSE

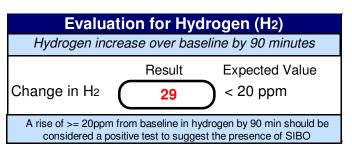
SMALL INTESTINAL BACTERIAL OVERGROWTH (SIBO) - 3 HOUR Breath Test

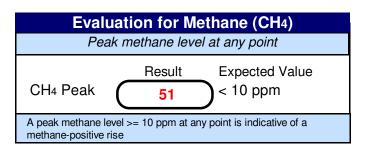
Hydrogen (H₂) and Methane (CH₄) Breath Gases

Methodology: GC-TCD/SSS



Methane (CH₄) and Carbon Dioxide (CO₂) (ppm) Hydrogen (H₂), S2 S3 S4 S5 S6 S7 S8 S1 40 mins 60 mins 90 mins 0 mins 20 mins 120 mins | 150 mins | 180 mins H₂ 27 8 8 16 33 37 27 28 CH₄ 30 36 37 50 47 49 51 49 H2 + CH4 76 78 77 38 44 53 83 84 CO₂ ** П П Π Π П П Π П **Actual Collection Times Actual Time** 7:00 7:20 7:40 8:00 8:30 9:30 9:00 10:00 Actual Interval 0 20 40 60 90 120 150 180 ** CO2 is measured for quality assurance: II indicates the CO2 level is acceptable O indicates room air contaminiation exceeding acceptable limits







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Laboratory Comments

GENERAL CONSIDERATIONS FOR BREATH TESTING

Small Intestinal Bacterial Overgrowth (SIBO) is a heterogeneous syndrome characterised by an increase in the number and/or the presence of atypical microbiota in the small intestine. The SIBO breath test relies on measurement of gases (Hydrogen and Methane) produced by microbiota in the intestine following ingestion of lactulose, fructose or glucose in a fasting state.

The test also measures Carbon Dioxide as an indicator of correct collection procedure. Carbon Dioxide levels exceeding acceptable limits indicate room air contamination likely at the time of sample collection. The integrity of these samples is questionable and results are designated as " X " (NR-Non-Reportable).

FALSE POSITIVES:

Falsely elevated findings may result from incorrect preparation for performing the SIBO test, incomplete avoidance of high-fibre foods, residual fibre in the intestine due to delayed transit time, residual oropharyngeal (mouth and throat) bacteria, and exposure to tobacco smoke, or napping during collection.

FALSE NEGATIVES:

A breath test finding with low Methane and no Hydrogen throughout the entire test may to be due to an abundance of hydrogen sulfide-producing bacteria, which compete for available hydrogen for production of the hydrogen sulphide gas. For this reason, Methane is measured to rule out false negative hydrogen results.

REPORT INTERPRETATION:

SIBO Test results need to be viewed in terms of Hydrogen production, Methane production and Total Hydrogen and Methane production.

A rise in Hydrogen of >20 ppm over baseline in the first 90 minutes of testing, is considered SIBO-Positive.

A peak methane level >10 ppm at any point indicates a methane-positive result, and is considered SIBO-Positive.

A rise in the combined gases (Hydrogen and Methane) level over baseline of 12 - 32 ppm is indicative of a mild SIBO condition, whilst a level of 33 ppm or greater is indicative of a severe SIBO condition.

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