

QT02604 - AlveoSampler™ Fructose Malabsorption Test Kit

Please verify that this kit contains one of each item:

- Disposable QuinTron AlveoSampler used to collect samples.
It consists of a blue mouthpiece with an attached blue plastic bag.
- 35 ml syringe with a stopcock, and instructions on how to draw samples of alveolar air at the end of an expiration through the mouthpiece.
- 25 gram sealed pouch of Fructose sugar.



Patient Preparation For The Test

The physician **SHOULD** notified of any recent antibiotic treatment and/or runny diarrhea prior to testing.

- These conditions can impact the validity of the test.

The patient **SHOULD NOT** eat high-fiber or slowly digesting foods the day before the test.

- Such foods include bran, coarse breads, nuts, beans, and similar vegetables.
- This will reduce the chance of hydrogen and methane being produced from other food sources during the period of the test.

The patient **SHOULD** fast overnight (at least 12 hours) before the test, consuming no food and having only water to drink.

The patient **SHOULD NOT** smoke for at least 1 hour before collecting any air-sample used for the test.

The patient **SHOULD NOT** sleep or exercise vigorously for at least one hour before, or at any time during the test.

Instructions for Doing the Test

1. Collect a “baseline” alveolar air sample.
(See instructions, how to use the AlveoSampler)
2. Analyze the sample with your BreathTracker™ or MicroLyzer™ instrument, and record the data on the analytical record.
(See reverse side)
3. Thoroughly dissolve the Fructose powder in 8 ounces of water.
Administer the solution and record the time the dose was given.
Be sure the patient drinks all the solution. Add more water if necessary.
4. One hour after administering the Fructose solution, collect an alveolar air sample then analyze the sample in your instrument.
5. Record the values and wait another hour, collect the next sample and analyze, repeat this collection/analysis procedure for 3 hours.

AFTER RECORDING ALL THE VALUES, CONSTRUCT A GRAPH RELATED TO THE VALUES AND WRITE DOWN ANY SYMPTOMS THE PATIENT HAS EXPERIENCED.

These instructions are a general protocol, and may be modified per the physician’s request.

If you modify the protocol or instructions you will have to interpret based on your modification.

LOW WEIGHT PATIENTS: If your patient weighs less than 50 lbs (23kg), you will need to scale down the discard bag according to the scale printed onto the bag. Also, dilute the fructose solution according to the weight of the patient by mixing the entire packet of Fructose in 8 oz. of water. Remove desired amount of solution, and then add desired amount of water to bring the final solution volume of liquid back to 8 oz.
(See chart below)

| Weight | | Fructose Solution | | Added Water | |
|--------|-------|-------------------|-----|-------------|-----|
| lbs. | kg | oz. | ml | oz. | ml |
| 14-21 | 6-10 | 3 | 75 | 5 | 175 |
| 22-28 | 11-13 | 4 | 120 | 4 | 130 |
| 29-35 | 14-16 | 5 | 150 | 3 | 100 |
| 36-42 | 17-19 | 6 | 180 | 2 | 70 |
| 43-49 | 20-22 | 7 | 210 | 1 | 40 |
| 50+ | 23+ | 8 | 250 | 0 | 0 |

Other Precautions: Some patients have severe allergies to Fructose. Be sure to consult the patient and physician regarding allergies and do not perform this test on a patient that has allergies to Fructose.

QUINTRON

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FRUCTOSE INTOLERANCE ANALYTICAL RECORD

Patient Name: _____ Weight: _____ Date: _____

Substrate Given _____

Nurse _____

Referring Physician _____

Symptoms (Check All That Apply):

Nausea _____ Weight Loss _____ Diarrhea _____

Vomiting _____ Weight Gain _____ Constipation _____ Bloating _____ Other _____

SAMPLING SCHEDULE & GRAPH

Sample Time Clock ppm H₂ ppm CH₄ (f)CO₂*

*The f(CO₂) is the correction factor determined for the H₂ and CH₄ samples that are contaminated and are only available with the BreathTracker SC, H2+ and MicroLyzer SC.

†Baseline (BL) _____

No. 1 30min _____

†No. 2 60min _____

No. 3 90min _____

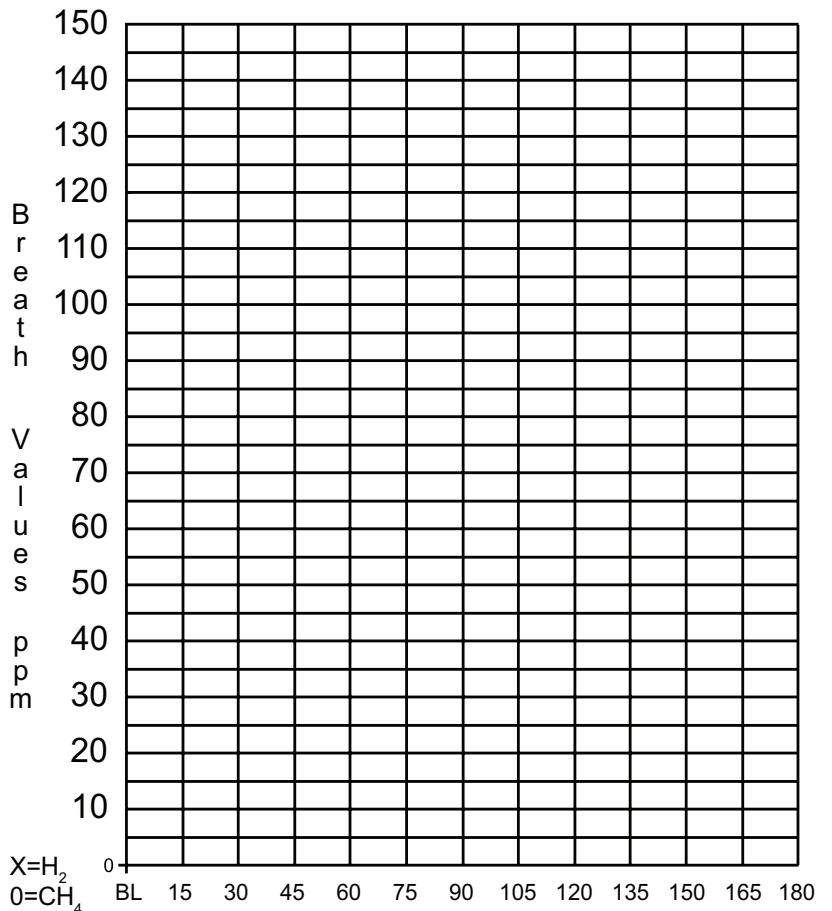
†No. 4 120min _____

No. 5 150min _____

†No. 6 180min _____

The sample minutes listed above are included for physicians who wish to acquire samples more frequently.

†The standard protocol only requires samples to be taken every hour for 3 hours. Additional samples are optional, and should be performed only by the approval of the physician. Do not stop the test early unless the physician approves.



Final Reading _____

Sampling Times (minutes)

Black = Hydrogen Red = Methane

Physician Signature _____



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