

A simple test for Lactose Intolerance

H2 Check



- ✓ Suitable for all age groups
- ✓ Results instantly displayed
- ✓ Rebreathing technique allows tidal breaths to be performed to collect samples

Other Applications include:
Lactose mal-absorption
Carbohydrate mal-absorption
Carbohydrate breakdown deficiencies
Bacterial overgrowth

Intestinal transit time
Sucrose mal-absorption
Fructose mal-absorption
Lactulose bacterial overgrowth
Sorbitol mal-absorption



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H2 Check

Lactose is a sugar found in milk. Unless it gets changed into glucose it cannot be absorbed into the body. This change happens when the Lactose passes through the stomach into the small intestine and comes into contact with something called Lactase.

If there is not enough Lactase present the Lactose cannot be broken down, this in turn leads to Lactose Intolerance. As a result, the hydrogen that is produced by bacteria is absorbed through the wall of the small or large intestine.

The hydrogen then travels to the lungs where it is released and exhaled in the breath where it can be measured by the H2 Check.

The H2 Check is capable of diagnosing a range of gastroenterology disorders and food intolerances based on collecting Hydrogen breath results.

Building on experience gained over many years, the H2 Check is an easy to use hand held device for the simple detection of Hydrogen on the breath. A simple breath test will display H2 results in PPM.

The H2 Check can be used on all age groups and types of patients. A face mask can be used on patients that are not able to comply with tidal breathing through a standard cardboard mouthpiece test.



A simple breath test using the H2 Check

Simplicity is the key

- ✓ Single switch operation
- ✓ Fast results time
- ✓ Rapid response time
- ✓ Unique re-breathing system

Specifications:

Gas Detected	Hydrogen
Concentration Range	6 - 500 PPM
Maximum Overload	2000 PPM
Detection Sensor Used	Electrochemical fuel cell
Sensitivity	1 PPM
Accuracy (repeatability)	±5% or ±5 ppm whichever is greater
Operating Temperature	5-30° Celsius
Ideal Operating Temperature	20° Celsius
Operating Pressure	Atmospheric 10%
Operating Humidity	30% to 90% RH
Operating Altitude	Sea level to 6000 ft
Storage Temperature	-20 to +70° Celsius
Storage Humidity	15% to 90% RH
Sensor Life	2 years, 6 month warranty
Sensor Drift	<2% per month
Display	128 X 64 pixels Graphic LCD
Power Supply	Single Lithium 9V PP3 battery
Weight (approximate)	180g including battery
Dimensions	135mm x 65mm x 30mm

Bibliography

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