

## Advanced Hydrogen breath testing



Hydra software offers a unique  
solution for performing and storing  
Hydrogen breath tests on your PC



### Applications

- Lactose intolerance
- Lactose malabsorption
- Carbohydrate malabsorption
- Carbohydrate breakdown deficiencies
- Bacterial overgrowth
- Intestinal transit time
- Sucrose malabsorption
- Fructose malabsorption
- Lactulose bacterial overgrowth
- Sorbitol malabsorption



# Micro H<sub>2</sub>

## Advanced Hydrogen breath testing

The Micro H<sub>2</sub> is a powerful diagnostic tool for measuring expired Hydrogen concentrations in ppm. From a single breath manoeuvre, measurements are instantly displayed on the large, easy to read liquid crystal display.

For young children unable to comply with mouthpiece operation, a gas sampling system is available. This system collects alveolar gas in an impermeable bag for subsequent analysis by the Micro H<sub>2</sub>.

Operating from a single 9v PP3 battery, the Micro H<sub>2</sub> (Cat. No. MH03) is supplied complete with all accessories including Hydra software, gas collecting bag, face mask and sturdy carry case.

# Micro Medical



Gas sampling system (pictured above)

The gas sampling system (Cat. No. HHS 4413) is designed for young children unable to comply with a straight forward single breath manoeuvre. The bag is filled with expired air remotely by using a one-way valve and breath system and face mask. Once full, the bag is connected to the Micro H<sub>2</sub> and the breath sample expelled manually.



### Calibration gases

To achieve measurements of the greatest accuracy we recommend that the unit be calibrated prior to use. Micro Medical can supply calibration gas (100ppm H<sub>2</sub> in Nitrogen) complete with a control valve for simple and economic user calibration. The gas is supplied in convenient, disposable, aluminium aerosol cans containing 20 litres of gas (Cat. No. MCG100 or MCGK100 with control valve). With this can approximately 10 calibrations of the Micro H<sub>2</sub> meter can be readily achieved.



## Hydra software

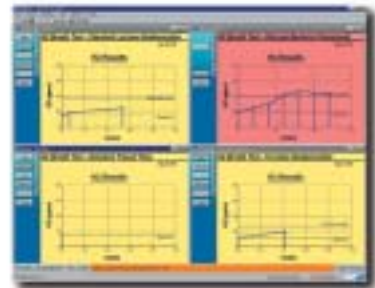
Hydra is fully Windows compatible. Simply connect your Micro H<sub>2</sub> to your PC with the supplied interface cable and run a real time test.

You can select a commonly used H<sub>2</sub> breath test protocol like Lactose intolerance, Intestinal transit time or Bacterial overgrowth from the database, enter the patient's details along with their symptoms, and Hydra will literally drive you through the test. Hydra will complete the test process by automatically editing a professional report. Used in conjunction with the Micro H<sub>2</sub>, it will help you manage real-time multi-patient H<sub>2</sub> sessions, and diagnose the results.

As well as the many built-in protocols, HYDRA will accept customised protocols entered by the user.

### Features

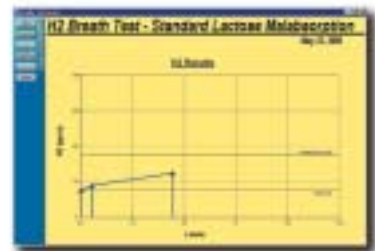
- Real-time interactive software
- Windows compatible
- Multi-patient testing
- Transportable to Works, Excel and WFS
- Automatic diagnosis available
- Built-in protocols
- Customisation of protocols
- Can be operated as a stand alone software without a Micro H<sub>2</sub>



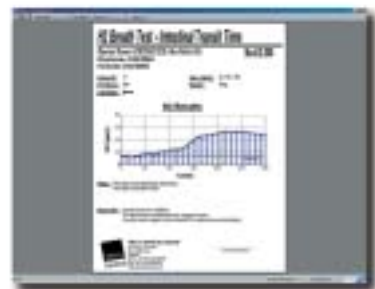
Multi-patient real-time testing



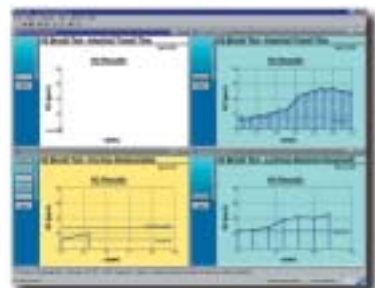
Built-in protocol selection



Real-time breath analysis



Professional reporting with diagnosis



Reviewing archived reports



## Specification

Gas Detected	Hydrogen
Range	0-500 ppm
Sensitivity	1ppm
Operating range	0-40 degrees celsius
Display	3½ digit LCD
Power supply	Single 9V PP3
Weight (Nett)	160gm
Weight (Packed)	1.9kg (MH03) 1kg (MH02)
Dimensions	170 x 60 x 26mm

## Hydra software Cat No. HYD1000

PC minimum requirements

- 486 or higher processor
- PC with Microsoft® Windows® 95 or later
- 16 MB of RAM
- 10 MB of free hard disk space
- CD-ROM drive
- At least 256 colours display

## Bibliography

LEVITT MD, Production & Excretion of Hydrogen Gas in Man, New England Journal of Medicine 1969:181, 122-127)

Comparison of a Poratable breath hydrogen analyser (Micro H<sub>2</sub>) with a Quintron MicroLyzer in measuring lactose maldigestion, and the evaluation of a Micro H<sub>2</sub> for diagnosing hypolactasia. K.Peuhkuri T. Poussa & R. Korpela. Department of Pharmacology & Toxicology, University of Helsinki, Tampere, Finland

The Micro H<sub>2</sub> complete with all accessories shown is supplied as Cat. No. MH03. The Micro H<sub>2</sub> without HYDRA software, sample bag or face mask is supplied as Cat. No. MH02.

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