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MEDICAL ELECTRONIC CONSTRUCTION

"Since 1984 Manufacturer & Distributor of Respiratory & Cardio Respiratory Devices"

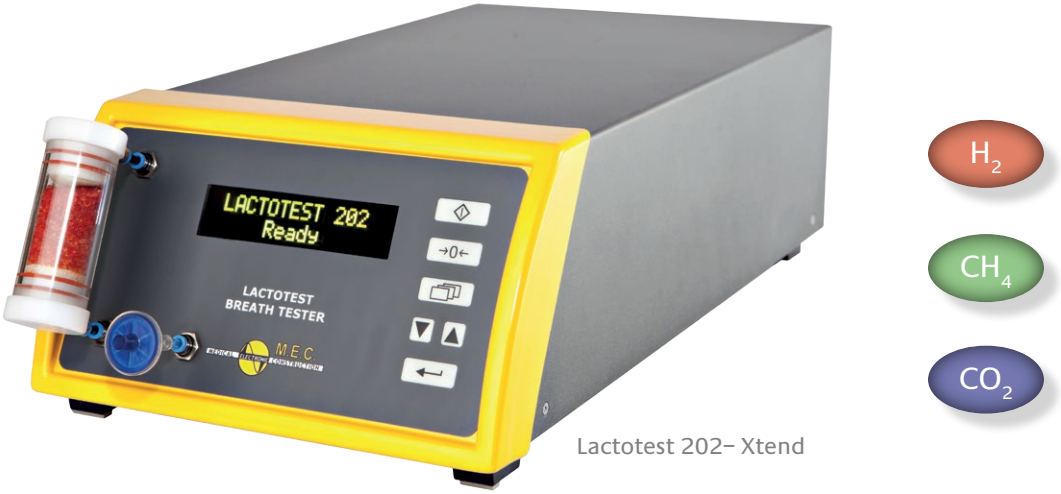
LACTOTEST 202

Hydrogen, methane and carbon dioxide breath test monitor

The **Lactotest 202** has been developed to provide quick and reliable diagnosis of gastro-intestinal disorders measuring carbohydrate breakdown deficiencies and/or malabsorption. Particularly efficient for lactose intolerance screening, the **Lactotest 202** also gives good indication of small intestinal bacterial overgrowth (SIBO) and evaluates intestinal transit time. The **Lactotest 202** range is composed of:

Lactotest 202 "Xtend" (H2 + CO2 + CH4) & Lactotest 202 "Control" (H2 + CO2)

- The electrochemical sensor with thermal compensation for H2 and infra-red analyzers for CH4 and CO2 deliver an accurate test measurement in less than one minute. The Lactotest 202 Control can be upgraded to CH4 detection.



Lactotest 202– Xtend

- Approximately 35% of the population produces methane, alternatively or in addition to hydrogen*. The role of CH4 is to ensure that these patients are not miss-diagnosed, therefore reducing the percentage of false negative tests.

- The C02 concentration is virtually constant in the alveolar sample. If the sample is not alveolar, the results are underestimated. With the CO2 correction factor (applied to H2 and CH4), the **Lactotest 202** implements an essential verification of the results' reliability.

- The technique of exhaled breath monitoring is usually well tolerated by patients of all ages. The test is easy, **non-invasive** and performed after a short period of fasting.

- The **Lactotest 202** works with an automatic pump for test sampling and flushing of residual gas, making it immediately ready for the next test.

* Clinical Gastroenterology Hepathology, 2006 Feb; 4 (2): 123-190

Patient/User benefits

Applications	Carbohydrate malabsorption detection Lactose malabsorption and/or intolerance Fructose/Glucose/Lactulose/Sorbitol/Sucrose/d-Xylose/Xylitol intolerance Small Intestinal Bacterial Overgrowth (SIBO) diagnosis Transit time diagnosis
Non invasive	Sampling by exhaled air collection
Software	Patient Data Interface (PDI): patients' database integration; import/export of results into Hospital Information Systems (HIS); report creation (MS Word, pdf, etc.)
Calibration	Once a day with pre-mixed calibration gas

How to choose the Lactotest 202 you need?

	LACTOTEST 202 « CONTROL»	LACTOTEST 202 « XTEND»
ELECTROCHEMICAL H2 ANALYSER	H_2	H_2
INFRA RED CH4 ANALYSER		CH_4
INFRA RED CO2 ANALYSER	CO_2	CO_2
INJECTION / FLUSHING / SAMPLING	MANUAL / AUTOMATIC / SYRINGE	AUTOMATIC / AUTOMATIC / BAG

Specifications

Measurement range	H2: 0-200 ppm; CH4: 0-500 ppm; CO2 0-10%
Accuracy	± 2 % fs
Detection principle	H2: Electrochemical sensor with thermal compensation CH4 & CO2: Infra-red analysers
Sensor operating life (and warranty)	H2: minimum 3 years (1 year warranty) CH4 & CO2: 10 years (1 year warranty)
Sensor resolution	H2: 1 ppm CH4: 1 ppm & CO2: 0.01%
Warm-up time	202 Control: 30 min.; 202 Xtend: 60 min.

Certification / Safety standards
93/42/EEC & 2007/47/EC Medical Devices Directive

MEC, YOUR PARTNER FOR THE LONG TERM ...

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