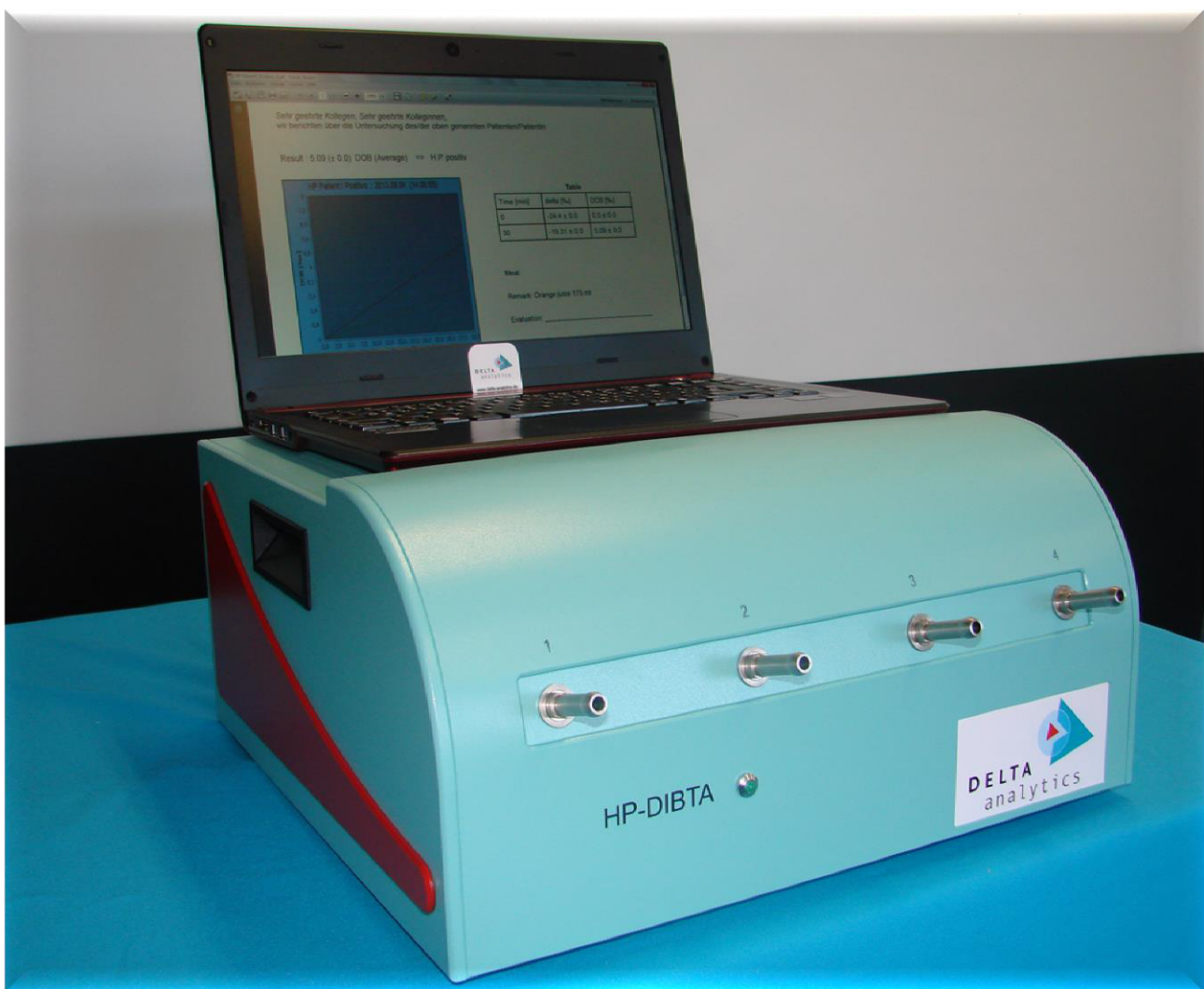


# HP-DIBTA

high finesse instrument for Helicobacter Pylori detection of isotope ratios in breath gas



In human metabolism CO<sub>2</sub> is often the final product, which is exhaled and thus easily accessible to analysis  
 HP-DIBTA evaluates any Helicobacter Pylori infection  
 easily accessible - non invasive – economic – small - no side effects – harmless <sup>13</sup>C UREA - real multitasking

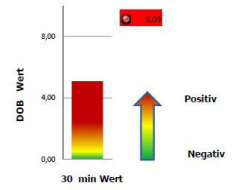


St. Bonifatius Hospital

Endoskopie  
 Prof. Dr. med. Upload  
 Zentrale: +49 (0) XXX  
 Durchwahl: +49 (0) XXX  
 Name: HP Patient, Positiv  
 Geb. Datum: 01.01.1990  
 Fikt. Nr.:  
 Untersuch. Dat.: 28.03.2012  
 1. Untersucher:  
 Assistenz:  
 Lingens, den 13.11.2013

**Atemtest: H. p. Test (<sup>13</sup>C-Urea)**

Ergebnis: 5,09 DOB  
 H.p. Nachweis , Positiv



Testmahlzeit  
 100 ml Orangensaft, 80 mg <sup>13</sup>C Urea

Auswertung:  
 Bemerkungen:

Herr Prof. Dr. med. J. C. Upload  
 TEMPLATE017#902

The HP-DIBTA (Helicobacter Pylori Delta Infrared Breath Test Analyzer) determines the isotope ratio of <sup>13</sup>C/<sup>12</sup>C of CO<sub>2</sub> in human breath with a precision of +/-0,8 delta per mille and is supplied with a software to evaluate the commonly known Helicobacter Pylori <sup>13</sup>C Breath Tests / 2- point / 3-point/ 4-point. Newly developed tests can be defined, too. The DIBTA is controlled by a Windows, Apple or Linux computer via a LAN or RS232 interface.

**Technical Data:**

Weight: 8 kg  
 Height x Width x Depth 17 x 37,5 x 36 cm  
 Power supply: 24 VDC via medical power supply pack (90...264 VAC)  
 Power requirement: Typ. 40 W, Max. 90W during warm-up  
 Data connection: Ethernet or RS232  
 Operating system: Computer with XP to Windows 8 , Mac OS X or Linux

**Application, System specification:**

Test medium: Breath from breath bags  
 Physical measured value: <sup>13</sup>CO<sub>2</sub> and <sup>12</sup>CO<sub>2</sub>  
 Measuring Co<sub>2</sub> total:  
 Minimum concentration CO<sub>2</sub>: 0,2%  
 Maximum concentration CO<sub>2</sub>: 5%  
 Precision: +/- 1 delta per mille over 1h  
 Reproducibility (one sample N=8): +/- 0,8 delta per mille  
 • Optional: Connect to IT-management system.

**Software:**

- Runs on Windows, Linux, Mac
- Multitasking: Define new tests in the measurement list or calculate and print results while performing your actual measurements.
- User management: User rights depend on user login. There are three levels of use: Administrator, doctor and assistant.
- Use one of the pre-defined tests and compare your results to normal collectives.
- Define new tests for a clinical study.
- Export to Excel and produce PDF-Reports with yourself defined individual layout of the doctor's letter.
- Optional: Connect to IT-management system.



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