

SFB7. For the Next Generation in Body Composition Analysis

Imp™ SFB7.

Select the latest generation in Bioimpedance spectroscopy (BIS)

- 256 frequencies
- Greater accuracy and precision



impedimed®

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Specifications (BIS mode)

Frequency:

4 to 1000 kHz

Number of frequencies

256

Impedance range

10 to 1100 Ω

Impedance accuracy

+/- 1.0% 50 Ω to 1100 Ω

Phase range

-90° to +90°

Phase resolution

0.1°

Portability

Full on-board computing

Measurement time

Less than 1 second

Software

Analysis software provided
(Windows® compatible)

Data transfer

Ethernet

Dimensions

L = 190 mm (7.5 in)

W = 130 mm (5.1 in)

D = 110 mm (4.3 in)

Weight

1 kg (2.2 lb)

Display

320 x 240 pixel 1/4 VGA LCD display

Measured data displayed

Cole-Cole plot (resistance vs reactance),
frequency vs resistance, frequency vs reactance,
characteristic frequency, mean cell membrane
capacitance

Calculated data displayed

Fat-free mass (FFM), fat mass (FM), total body
water (TBW), intracellular fluid (ICF), extracellular
fluid (ECF)

Power requirements

Internal rechargeable Li-ion batteries

Electrode leads

Shielded cable of 1.5 m (1.6 yd) lengths

Measurement mode

Tetra polar

Data accessibility

Full raw data access

ImpediMed Imp™ SFB7: Supreme accuracy and precision using BIS

The Imp™ SFB7 is a single channel, tetra polar bioimpedance spectroscopy (BIS) device that scans 256 frequencies between 4 kHz and 1000 kHz. The device utilises Cole modelling with Hanai mixture theory to determine total body water (TBW), extracellular fluid (ECF) and intracellular fluid (ICF) from impedance data. Fat-free mass (FFM) and fat mass (FM) are then calculated on the device. Further data analysis can be undertaken in the supporting software (supplied). Therefore, no population specific prediction equations (algorithms) are required for data analysis.

Imp™ SFB7

- Bioimpedance spectroscopy - 256 discrete frequencies
- Single channel - tetra polar configuration
- Portable - full on-board computing
- Touch screen
- Low noise data generation no high frequency hook effect
- Highly accurate body composition analysis
- Readings in less than one second
- Advanced options - user-definable hydration coefficient
- Full access and disclosure of all raw data
- Supplied with case, electrodes and clips, leads and software on CD-ROM

Quick and simple

Instructions for use in BIS mode *

1. Turn device on.
2. Place electrodes on hand and foot in correct position on the same side of the body.
3. Plug leads into the device.
4. Select Measurement setup on the menu, enter patient details and select measurement setting.
6. Touch the "Measure" button to make a measurement.

* Always refer to the Instructions for Use prior to operating the device



Measurement results: The first screen displays TBW, ECF, ICF, FFM and FM. Further displays include display of Cole-Cole and resistance and reactance plots.

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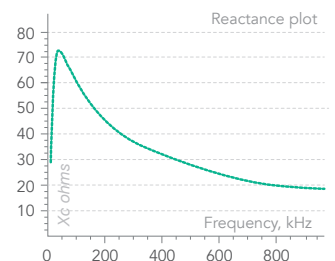
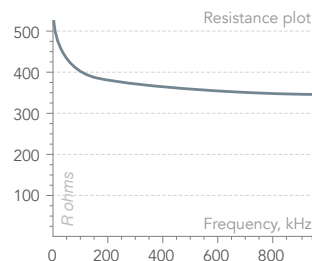
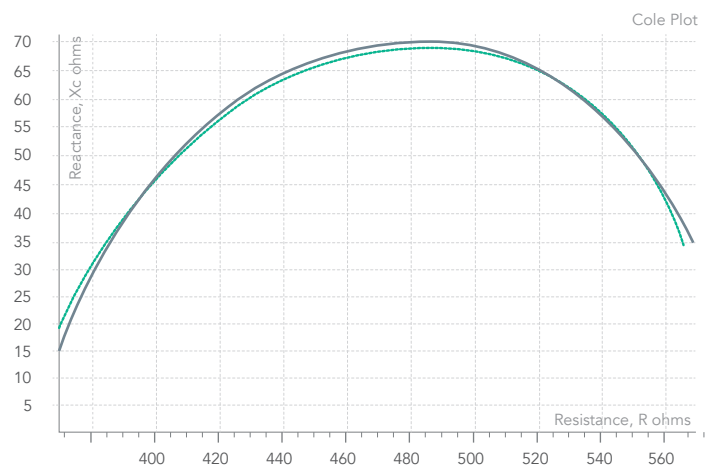
Comprehensive Reports

The ImpediMed device software generates comprehensive reports and allows sophisticated data manipulation

Impedance analysis report

Source file name: C:\sfb7\patient report.mfu
Comment: 20/05/2005 02:43:12 PM
Acquisition date: 15/06/2005 11:35:12 AM
Print date: 15/06/2005 11:35:12 AM

Accepted data
Ignored/Rejected
Fitted curve



Analysis Parameters

Low frequency: 3.1 kHz
High frequency: 1000.5 kHz
Rejection tolerance: none
Td correction: -8.0
Total points: 256
Points used: 256
Number ignored: 0
Number rejected: 0

Fit semicircle

R centre: 480.3
H centre: -67.5
Radius: 138.9
SEE: 0.4934

Body composition

TBW: 48.9 litres
ECF: 23.5 litres
ICF: 25.4 litres
FFM: 66.8 kg
FM: 18.4 kg
BMI: 23.9

Body composition settings

RHOe: 340.10
RHOi: 859.0
Body density: 1.05
Body proportion: 4.30
Hydration constant: 0.732

Patient details

Height: 1.89 cm
Weight: 85.2 kg
Age: 33 years
Sex: Male

Derived values

R zero: 601.7 ohms
R infinity: 359.0 ohms
Re: 601.7 ohms
Ri: 890.0 ohms
Z characteristic: 458.6 ohms
f characteristic: 29.0 kHz
Membrane cap: 3.68 nF