

BODY COMPOSITION ANALYZER – 1No.

(Tender Ref No. NIN/ST/12/Tender/2019/Body Comp. Analyser/8)

Application : To measure cellular health, nutritional status and fluid shifts in and out of the cells.

Features :

- Should be portable and convenient to use.
- To measure ECW/ICW, cellular fluid shifts, prognostic health indicators, nutrition index and raw data at four frequencies (5, 50,100, 200kHz)
- Provided with Thermal Printer and Bluetooth for instant print out of results.
- To be provided with medical graded electrodes
- Should have ISO certified quality standards, accredited by Medical Devices Directive and FDA cleared.

MEASUREMENTS:

- Extracellular Water percentage and Extracellular Water Volume
- Intracellular Water percentage and Intracellular Water Volume
- Total Body Water percentage and Total Body Water
- 3rd Space Water
- Body Cell Mass (BCM)
- Extracellular Water/Total Body Water
- Nutrition Index
- Plus Normal percentage Levels
- Body Fat percentage and Fat Weight
- Lean Mass
- Dry Lean Mass
- Basal Metabolic Rate (BMR)
- BMR/Total Weight
- Average Daily Calorie Requirement
- Waist/Hip Ratio
- Body Mass Index . Plus Normal Range
- Body Fat Mass Index (BFMI)
- Fat-Free Mass Index (FFMI)
- Prediction MarkerTM (Impedance Ratio)
- Impedance Values at 5, 50, 100 and 200 kHz
- Resistance 50 kHz
- Reactance 50 kHz
- Phase Angle 50 kHz

Specifications :

Technology	:	Bio-impedance analysis
Impedance range	:	20 to 1200ohms or better
Accuracy	:	Impedance 2-3 $\hat{\circ}$, Resistance $\pm 2\hat{\circ}$, Reactance $\pm 1\hat{\circ}$
Test Current	:	200 micro amps RMS
Frequency	:	5 / 50/ 100/ 200 kHz
Computation time	:	< 6seconds or better
PC Communication	:	Bluetooth wireless interface
Temperature	:	+ 5 $^{\circ}$ C to ambient
Power source	:	Duracell alkaline batteries (non rechargeable)
Indications	:	To display warning when low battery power