OBio...
Supporting Care to Cure
A Division of Orchard Medical

Dedicated 3-part mode in 5-part machine!
Unique RRBC mode!



Automated
Hematology Analyzer
(5-part + 3-part All in One)

OBio H5 OV

25-Parameters
4- Research Parameters
3- Histograms
3- Scattergrams

20 ul Lower Sample Volume,
Lower reagent consumption
Only 2 Lyse & 1 Diluent
Reagent system

Large 10.3" Touch Screen
display with Powerfull
Linux based operating system

On display flags
For abnormal results,
Continues reagents level
detection system

Faster performance,
60 tests/hour
with dual chambers

Larger memory of saving
50000 sample results
with histograms

OBioH5 OV
Specifications

Automated
Hematology Analyzer (5-part)

- **Principle:** Triangle laser flow cytometry for 5-part WBC Differentiation, Electrical Impedance method for WBC/RBC/PLT, Cyanide free colorimetry for Hgb measurement.
- **Parameters:** 25 Reportable Parameters WBC, LYM%, MON%, NEU%, EOS%, BASO% , LYM#, MON#, NEU#,EOS#,BASO#, RBC, HGB, HCT, MCV, MCH, MCHC,RDW-CV, RDW-SD, PLT ,MPV,PDW, PCT , P-LCR, P-LCC
- **4-Research Parameters:** ALY%, ALY#, IG%, IG#
- **Analysis Mode:** Whole blood & Prediluted Mode
- **Measurement Mode:** CBC+3 diff, CBC+5 diff, CBC+5 diff+RRBC
- **RRBC:** Resistant RBC, when the red blood cells cannot be dissolved completely, the number of white blood cells will increase, and appears some situations of inaccurate results or unable to differentiate properly
  To solve the problems mentioned above, when the RRBC WARNING appears on WBC flag, we need to use RRBC mode to run the test. At that time the analyzer will automatically prolong the reaction time of hemolysis reagent to make them fully react, which can minimize the influence of insoluble red blood cells to white blood cells as much as possible, specially found in the patients having Hematologic diseases, tumor chemotherapy, Jaundice, Hyperlipidemia, Some of Anemic and newborn etc blood samples.
- **Sample Volume:** 20ul in all Modes
- **Counting Chambers:** Dual Chambers WBC and RBC with additional diff bath chamber
- **Throughput:** 60 Samples/hour
- **Data Storage Capacity:** 50000 sample results with histograms
- **External Connectivity:** 4-USB & 1-LAN port support external printer and LIS/HL7 system support
- **Reagents with pack size:** Diluent 20L, Lyse -5D 1L, Lyse -5H 200ml, Probe Cleaner 100 ml for daily maintenance
- **Maintenance:** Various powerful cleaning procedures, Auto clog detection & removal system, Optional standby mode, Selectable automatic cleaning procedures, Automatic Error alerts and single touch option to remove it
- **Control & Calibration:** 3-level, LJ with manual & automatic calibration

Linearity & Accuracy

Parameter	Linearity range	Accuracy (CV)	Range for Accuracy
WBC	0.0-300^10^9/L	≤2.0%	3.5×10^9/L~15.0×10^9/L
RBC	0.0-8.5^10^{12}/L	≤1.5%	3.00×10^{12}/L 6.00×10^{12}/L
HGB	0-25 g/dl	≤1.5%	10 g/dL~18 g/dL
MCV	40-150 fL	≤1.0%	70 fL~120 fL
PLT	0-3000^10^9/L	≤4.0%	150×10^9/L~500×10^9/L

- **Power Requirement:** Standard AC 220V ±22V, 50Hz, 200VA
- **Environmental Condition:** Room temperature:15°C-35°C
  Relative Humidity: 10%-90%, Atmospheric Pressure : 70 kPa-110 kPa
- **Weight:** Net-28 Kg
- **Dimension:** (L X W X H): 320 X 500 X 390 mm

Orchard Medical
154, Teghoria Main Road Kolkata -700157
Mobile no: - +91 84200 69980
Website- www.orchardmedical.co.in
Email: sales.orchardmedical@gmail.com

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