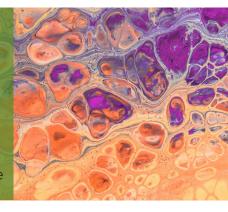




MICROS 60TM/ MICROS ES 60TM

Horiba ABX Micros Series Hematology Analyzers The leader in PRP quality control (QC) at the point of care



The Micros 60 and Micros ES60 devices are 3 part DIFF Hematology Analyzers, universally recognized for reliability, high platelet range (4 million platelets/ uL) and ease of use to characterize Platelet Rich Plasma (PRP) in less than 1 minute.



The ABX Micros series hematology analyzers are designed to precisely and accurately calculate complete blood counts (CBC) by impedance and selective lysing. These devices have been studied and validated for their use to quantify whole blood samples as well as PRP in order to effectively identify the dose of platelets administered, the PRP purity (white blood cells (WBC)/red blood cells (RBC) contamination) and the efficiency of your bedside PRP protocols to recover platelets.



Micros 60 Closed Tube (CT)



Micros ES60 Open Tube (OT)

HORIBA MICROS 60/ES60 FEATURES

CBC + 3 PART DIFF

- 55-60 samples per hour
- Large touchscreen and integrated ticket printer (ES60)
- Integrated barcode reader (ES60)

SEAMLESS CONNECTIVITY

- USB connection for easy archiving of patient QC results
- 7 connection ports
- HL7 protocol for electronic medical record integration

EASY INTERPRETATION

- Unlimited patient report archiving and customization
- Control parameters from the main screen
- User-friendly interface

COMPREHENSIVE QC PROGRAM

- 3 simultaneous blood controls
- Levey-Jennings graphics
- Upload/Download control information

AUTOMATIC SYSTEM MONITORING

- Real time instrument status
- Automatic reagent test countdown
- Automatic daily maintenance and operational alerts

PATENTED MINIPACK SYSTEM

- Reagents and waste housed in a convenient pack
- No cumbersome bottles
- Ready to use and simple to discard

BENEFITS

Quality Assurance

- Accurate baseline whole blood and PRP cell counts
- Provides data to provider and patient In-depth training provided
- Tie injectate to clinical outcomes

Ease of Use

- KEDTA microtainers
- Small 10 µL sample aliquot needed Reagent pack minimizes waste
- No need for dilution

Cost-Effective

- \$25 per patient*
- Results in 1 min saves QC time
- Cheaper limited service contracts**



HORIBA

COMPETITIVE ADVANTAGE

- 1. Validated linearity up to 4 million platelets per microliter sample, eliminates dilution and human error.
- 2. Integrated reagent packs simplify QC protocols at the point of care and footprint in the clinic setting.
- 3. Leading hematology platforms for Orthobiologics and blood donor centers (e.g American Red Cross) in the US and Canada.
- 4. French-made and engineered ensuring innovation, not imitation, for your QC needs.

TECHNICAL + SAFETY INFORMATION

Micros ES60

Dimensions	&	Weight
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Width Weight 30.9 lb 16.9 in 14.2 in 14.2 in 43 cm 36 cm 36 cm 14 kg

Throughput

Average of 55 samples per hour (OT 60 / CT 50)

16 Parameters

RBC. LYM# & LYM% HGB MCHC MPV MON# & MON% HCT GRA# & GRA%

Linearity

Parameter Limit 0.0 - 100 x 10³/mm³ **WBC RBC** $0.0 - 8 \times 10^6 / mm^3$ HGB 0.0 - 24 g/dL HCT 0.0 - 70% PLT (Whole blood) 0 - 2200 x 10³/mm³

100 - 150 x 10³/mm³ 8 - 18 x 10⁶/mm³ 26 - 30 g/dL

80 - 90%

2200 - 6000 x 10³/mm³

Precision

Parameters %CV Nominal Values WBC. < 2.5 4-10.0 x 10³/uL < 2.0 $4-7 \times 10^6/\text{uI}$ RBC **HGB** < 1.5 12-18 g/dL < 2.0 36-54% HCT PIT < 5.0 200-500 x 10³/µL

Micros 60

Dimensions & Weight

Width Depth Weight Height 16.5 in 14.2 in 12.6 in 31 lb 33 cm 42 cm 36 cm 14 kg

Throughput

Average of 55 samples per hour (OT/CT)

16 Parameters

RBC PLT LYM# & LYM% HGB MCHC MPV MON#&MON% HCT GRA # & GRA%

Linearity

Parameters Limit 0 - 100 x 10³/mm³ **WBC** RBC $0 - 8 \times 10^6 / \text{mm}^3$ 0 - 26 g/dL **HBG** HCT 0 - 80% PLT (A)* 0 - 2200 x 10³/mm³ 0 - 4000 x 10³/mm³ PLT (B)*

*A for Hgb > 2 g/dL and RBC > $0.5 \times 106/mm^3$ (WB) *B for Hgb < 2 g/dL and RBC > 0.5 x 106/mm³ (PRP)

Precision

Parameters %CV Nominal Values **WBC** < 25 $10 \times 10^{3}/\mu L$ RBC < 2.0 5 x 106/uL HGB < 1.5 15 g/dL 45% HCT < 2.0 $300 \times 10^{3} / \mu L$ PIT < 5.0

RELEVANT PUBLICATIONS

- 1 Magalon J, Chateau AL, Bertrand B, et alDEPA classification: a proposal for standardising PRP use and a retrospective application of available devicesBMJ Open Sport & Exercise Medicine 2016;2:e000060. doi: 10.1136/bmjsem-2015-000060
- ² Graiet H, Lokchine A, Francois P, et alUse of platelet-rich plasma in regenerative medicine: technical tools for correct quality controlBMJ Open Sport & Exercise Medicine 2018;4:e000442. doi: 10.1136/bmjsem-2018-000442
- ³ Mautner, Kenneth & Malanga, Gerard & Shiple, Brian & Ibrahim, Victor & Sampson, Steven & Bowen, Jay. (2015). A Call for a Standard Classification System for Future Biologic Research: The Rationale for New PRP Nomenclature. PM&R. 7. 10.1016/j.pmrj.2015.02.005.
- 4 Fadadu, Priyal & Mazzola, Anthony & Hunter, Corey & Davis, Timothy. (2019). Review of concentration yields in commercially available platelet-rich plasma (PRP) systems: a call for PRP standardization. Regional Anesthesia & Pain Medicine. 44. rapm-2018. 10.1136/rapm-2018-100356.

Regulatory: K141161 and K014203 ClassII (Special Controls)

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