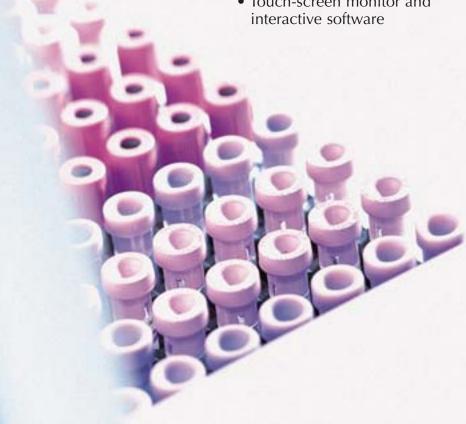
ABX Pentra 80

Hematology Analyser

- 5-Part differential
- Automatic sample handling
- Touch-screen monitor and



Pentra 80

Reliable results day after day.



Automatic mode:

- 10 tubes per rack.
- Positive identification of tube and rack (integrated barcode).

Manual mode:

- Sampling from open or closed tubes.
- 16 possible tube sizes.
- Positive identification (external barcode).

80 samples/hour + continuous loading ldeal for workloads up to 350 samples/day.

10-rack capacity + automatic rerun of abnormal samples

Immediate testing of pathologic samples without manual reloading.

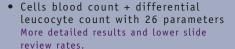
Microsampling of 30 μL (CBC) or 53 μL (CBC + DIFF) in automatic or manual mode Exceptional results with all sample types, even very small volumes (Paediatric, Oncology, etc.).

Can analyse platelet counts up to 2.8 million/mm³ without predilution

ldeal for Blood Collection Centres and Blood Banks.

End-over-end rotation of tubes before sampling Homogenisation of samples using reference method.

Reads barcodes on racks and tubes \$\int 100\% accurate sample identification.



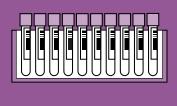
- Flow cytometry using principles of impedance, cytochemistry and measurement of light absorbance (Double Hydrodynamic Sequential System (DHSS) technology) Combination of 3 recognised measurement methods.
- Continuous loading and stat sampling Optimised, versatile hematology workstation.
- 100 tube capacity
 Walk-away capacity of over 1 hour (including technical validation).
- Automatic and immediate rerun of samples (user-definable)
 Improved, automated validation process.
- Only 4 reagents (integrated) + diluent Simple, economical handling of reagents.
- Double sampling needle
 ABX patent eliminates the need for a sampling
 valve and allows analysis of micro-volumes.
- Fluidic and pneumatic circuits controlled by stepper motor
 Very quiet (no compressor) and increased accuracy.
- Integrated workstation with colour touch-screen monitor Innovative, user-friendly interface.
- Quality Assurance including QC, XB, Repeatability, etc Comprehensive quality management.
- 9 internal logs (maintenance, calibration, reagents, etc.) Automatic archiving and complete accountability (essential for laboratory accreditation).
- Memory that can hold up to 10,000 patient files
 Save previous results with graphs and matrix.
- Mono or bi-directional connection
 Easily integrated into your laboratory organisation.



Pentra 80

Cutting-edge technology at every stage of analysis.

Sampling modes



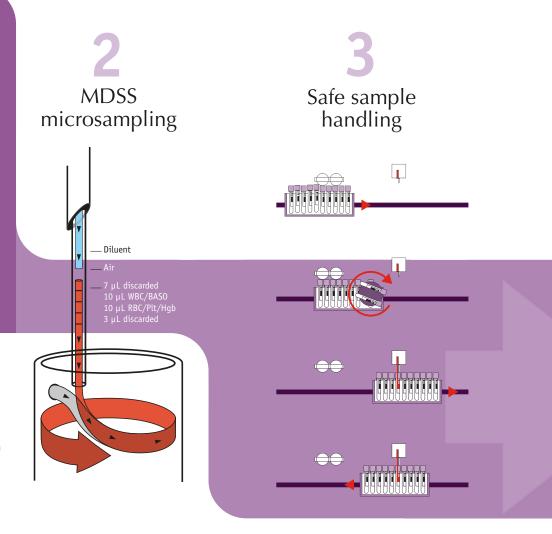


Automatic mode (CBC/DIFF)

- 10 tubes per rack
- Identification of tubes and racks
- 80 samples/hour

Manual mode (CBC/DIFF)

- Open or closed tube
- 16 tube types
- Tube type recognition and positive identification (external barcode)
- 80 samples/hour



Multi Distribution Sampling System*

- Sampling : only 30 μ L whole blood for CBC (53 μ L for CBC + DIFF).
- Sample aliquot taken, transferred to analysis chambers. Pre-heated analysis chambers for highly reproducible result.
- Tangential flow reagent dilution for optimal homogenisation.
- * ABX Patents

Linear rack loading

Verification of tubes (position and height) with automatic readjustment.

End-over-end rotation before sampling One-minute mixing.

Positive rack and tube identification Integrated barcode reader.

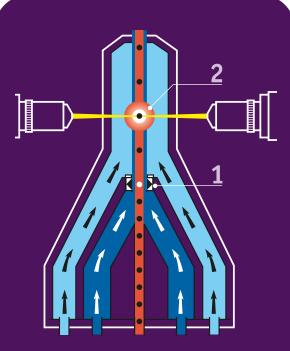
Microsampling (MDSS concept)

Automatic rerun

According to laboratory-defined criteria.

5 Results

Cytometry / Cytochemistry DHSS



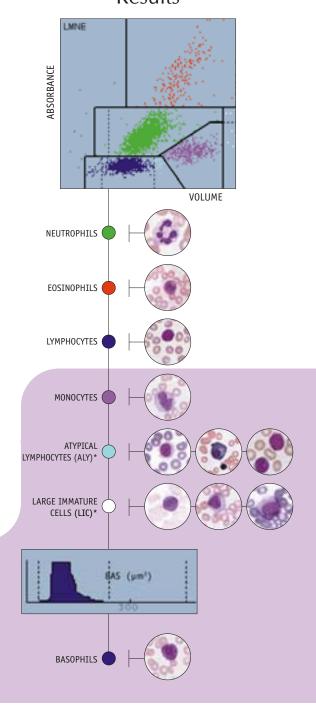
Cytochemistry

Sample incubation in a temperature-controlled chamber and enzymatic staining with Chlorazol Black.
This reagent specifically stains leucocyte nuclei, granules and membranes.

Cytometry

Injection of the prepared sample into a double hydrofocus cytometer (ABX patent) and analysis of cell complexity with a polychromatic light source.

- 1) Measurement of actual cell volume by impedance.
- 2) Measurement of cell content by diffraction and optical absorbance.



- 26 parameters.
- Histogram of RBC, WBC, PLT.
- Colour leucocyte matrix.
- Pathological and morphological alarms.
- Differential leucocyte count by DHSS technology.
- Basophil measurement through specific channel.
- Percentage and absolute value of neutrophils, eosinophils, basophils, lymphocytes and monocytes.
- Determination of 2 additional sub-populations (% and #):
 - Atypical lymphocytes (ALY)*,
 - Large Immature Cells (LIC)*.

^{*} Research use only

Pentra 80

One-step control.



Integrated workstation with touch-screen monitor.

Intuitive user interface and software.

Monitoring and accountability of all results.

Completely automated and programmable maintenance.

Quality control (Levey-Jennings charts).

Personalised printout of results with ranges and comments.

Completely automated, programmable start-up and shut-down.



System:

Reagents (levels, expiration dates, notebook, etc). Quality Control (XB, reproducibility, calibration, etc). Complete accountability (9 online logs).



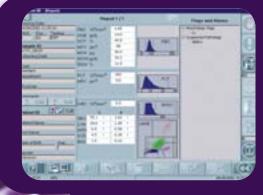
Sample:

Virtual visualisation of work list. Use of demographic information to create analysis profile. Entry of personal comments.



Results:

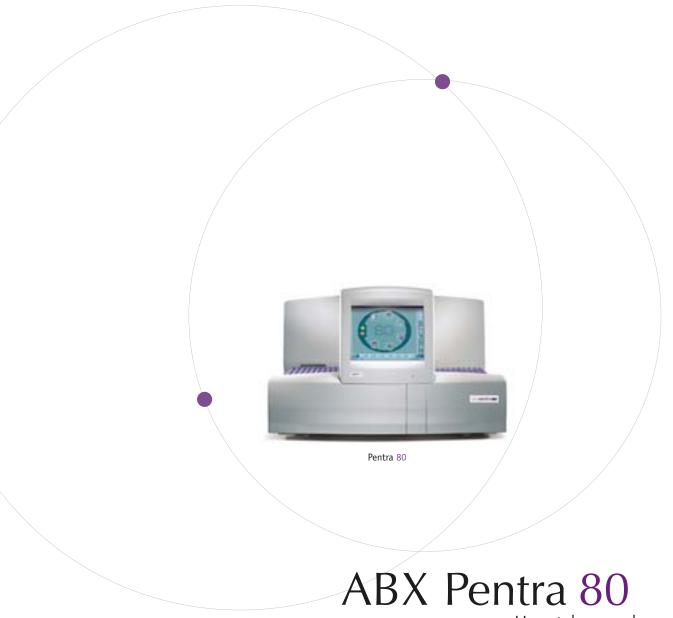
Visualisation of results, alarms, comments, demography, etc Colour matrix, zoom-in matrix and graphs. Sorting of results (normal, with alarms, rejected, etc.)



Archives:

10,000 result memory capacity.
Search by patient identification number or by date.
Automatically saves results with graphs,
matrix, alarms, comments, etc.





Hematology analyzer



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