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Performance characteristics of the Sysmex XT-2000i hematology analyzer

Fernandes B, Hamaguchi Y.

Department of Laboratory Medicine, Mount Sinai Hospital, Toronto, Ontario, Canada

The XT-2000i is a new hematology analyzer combining aperture impedance and optical technologies. It is capable of generating a 30-parameter hematologic assay on peripheral blood at a throughput of 80 samples per hour. We have evaluated the performance characteristics of the XT-2000i analyzer and compared them with those of the state-of-the-art XE-2100 analyzer and the manual differential count. The XT-2000i compared favorably with the XE-2100 analyzer and exceeded the manufacturer's specifications in all parameters tested. The XT-2000i has a user-friendly graphical user interface, and there was virtually no downtime during the period of evaluation. This analyzer can be recommended as a backup to the XE-2100 analyzer or as a stand-alone analyzer in a laboratory with moderate volume and a broad complexity of samples.

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