Micro Hematocrit Procedure

Principle

Micro-hematocrit by centrifugation (back up method for automated cell counter).

Safety

All specimens, reagents and controls should be handled as though capable of transmitting infectious diseases. Wear appropriate personal protective equipment when running patient samples or performing scheduled maintenance. Refer to: Policy and Procedures Safety Manual Infection Control and Procedures 11-085-01.

Specimen

For blood collection, capillary tubes are filled from a free flow of blood obtained from a skin puncture (finger stick or heel stick) or whole blood from a thoroughly mixed EDTA tube is acceptable.

Materials and Reagents

Autocrit Ultra 3 micro-hematocrit centrifuge
Heparinized 75mm Hematocrit tubes
Streck Para 4 Multi-parameter Assayed Hematology Control:

- Low REF# 215426
- High REF#215436

Critoseal

Procedure

Step	Action
1	Fill two micro-hematocrit tubes (heparinized) with blood directly from the puncture site or venous blood collected in an EDTA tube.
2	Wipe outside of tubes clean and immediately seal end with a modeling clay (Critoseal).
3	Load the filled tubes in the radial grooves of the micro-hematocrit centrifuge head with the sealed end away from the center.
4	Record the slot number of each patient sample on the requisition slip or instrument printout.
5	Centrifuge the capillary tubes for the recommended optimum packing time.
6	Read the hematocrit directly on the micro-hematocrit reader. Result manually in percentage.

Result Reporting

Interpretation of results:

Adult Male:	42 - 52 %
Adult Females:	37 - 47 %

A value below an individual's normal or below the reference interval for age and sex indicates anemia and a higher value, indicates polycythemia. The hematocrit reflects the concentration of red cells, not the total red cell mass.

Results are manually entered in Cerner under the Accession Result Entry (ARE) mode.

For detailed instructions of entering results, please refer to Laboratory Informatics – Cerner Genlab Policies & Procedures Manual, "*Resulting in Cerner GenLab: Manual Entry*" LIS.SCPMG.041 document.

REFERENCE

Todd. Sanford. Davidson. Clinical Diagnosis and Management by Laboratory Methods, 1974 Sixteen Edition. Page 873

Document History Page

Change type: New, Major, Minor etc.	Changes Made to SOP – describe	Name of responsible person/date	Med. Dir. Reviewed/ Date	Lab Manager reviewed/ date	Date change Implemented
Minor	Updated format and revised index number.	Julius Salomon, 7/1/17			