
Lab Dept: Hematology

Test Name: CBC, PLATELET, WITHOUT DIFFERENTIAL

General Information

Lab Order Codes: ABC

Synonyms: Hemogram; Blood Cell Count; Automated Cell Count; CBC and Platelet Count

CPT Codes: 85027 – Hemogram and platelet, automated

Test Includes: WBC, RBC, Hct, Hgb, MCV, MCH, MCHC, RDW, Platelet Count, MPV

Logistics

Test Indications: Useful as a screen for the evaluation of anemia, leukemia, reaction to inflammation and infection, state of hydration, and dehydration, polycythemia, hemolytic disease of the newborn, and ABO incompatibilities.

Lab Testing Sections: Hematology

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 4 hours

Special Instructions: Optimally, specimen should arrive in the lab within 4 hours of collection. Specimens can be stored at room temperature up to 24 hours.

Specimen

Specimen Type: Whole blood

Container: Lavender (EDTA) top tube , Lavender (EDTA) Microtainer®

Draw Volume: 2 mL blood in a 2 mL Lavender top tube
OR
0.5 mL in a EDTA Microtainer®

Processed Volume: Minimum: 0.5 mL blood

Stability:	Optimal when run within in 4 hours of collection. Stable for 24 hours at room temperature. Stable for 36 hours at 2 – 8 degrees C.
Collection:	Routine venipuncture or blood collection
Special Processing:	Lab Staff: Do Not centrifuge
Patient Preparation:	None
Sample Rejection:	Improper tube; clotted sample; underfilled tube; mislabeled or unlabeled specimens

Interpretive

Reference Range: Age and Sex Dependent; [Refer to CBC Reference Value Table](#)

Critical Values:

Test Name:	Value	Hem/Onc Clinics
Hematocrit:	<21% or >65%	None
Hemoglobin:	<7 gm/dL	<5.0 gm/dL
Platelets:	<50,000 or >1,000,000	<5,000
WBC:	Newborn: <5,000 or >35,000	None
	Others: <2,000 or >25,000	None

Limitations: Characteristics that may affect results include: lipemia (or patients receiving lipids), icterus, and cold agglutinins.

Lipemia, elevated WBC and cold agglutinins will prolong the turnaround time of an occasional specimen.

Methodology: Automated Cell Counter

References: Nathan DG, et al (1987) Hematology of Infancy and Childhood, WB Saunders pp1680, 1688

Normal Reference Range Study (1994) Children's Hospitals and Clinics, Minneapolis and St Paul, MN, Hematology Laboratory

Updates: 9/26/2018: Lipemic specimen information updated.