
Lab Dept: Hematology

Test Name: PNH TESTING

General Information

Lab Order Codes: PANH

Synonyms: Paroxysmal Nocturnal Hemoglobinuria; CD59; Pi-linked Antigen; Acid Hemolysin; FLAER; Ham-Crosby Sugar-Water Test; Sucrose Fragility

CPT Codes: 88184 – Flow cytometry; 1st marker, red blood cell
88184 – Flow cytometry; 1st marker, white blood cell
88185 x6 – Flow cytometry; each additional marker, WBC
88185 – Flow cytometry; each additional marker, RBC

Test Includes: Flow cytometry evaluation of PI-Linked antigens and when positive will include a pathologist review and interpretation when appropriate.

Logistics

Test Indications: The assay is useful in screening or in confirming the diagnosis of PNH and in following those patients. It will detect the presence or absence of GPI-linked antigens on the surface of peripheral blood granulocytes, monocytes, erythrocytes, and/or lymphocytes. The sugar water test and the Ham's test are not suggested for the evaluation of patients with possible PNH.

Lab Testing Sections: Hematology - Sendouts

Referred to: Mayo Medical Laboratories (MML Test: PLINK)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 – 2 days, testing set up daily

Special Instructions: N/A

Specimen

Specimen Type: Whole blood

Container: Lavender top (EDTA) tube
Alternate tube: Yellow top (ACD solution B) tube

Draw Volume:	2.6 mL (Minimum: 1 mL) blood
Processed Volume:	Same as Draw Volume.
Collection:	Routine venipuncture. Mix thoroughly by gentle inversion.
Special Processing:	Lab Staff: Do not centrifuge. Specimen should remain in original collection container. Store and ship at ambient temperature. Must arrive within 72 hours of collection. Specimen must not be frozen.
Patient Preparation:	None
Sample Rejection:	Improper specimen collection or handling; clotted specimen; frozen specimen; mislabeled or unlabeled specimens; gross hemolysis

Interpretive

RBC Partial Antigen Loss (RBC Type II)	0.00 – 0.99%
RBC Complete Antigen Loss (RBC Type III)	0.00 – 0.01%
Granulocytes	0.00 – 0.01%
Monocytes	0.00 – 0.05%
An interpretive report will be provided	

Limitations:	The sugar water test and Ham's test are no longer recommended for the evaluation of patients with possible PNH. Recent transfusion can decrease the sensitivity of this test and interfere with accuracy.
Methodology:	Flow Cytometric Immunophenotyping
References:	Mayo Medical Laboratories March 2017
Updates:	3/11/2004: Test moved from Allina-United Hospital to Mayo Medical Laboratories. 4/25/2005: Updated for 2005 CPT coding. 3/16/2010: Test updated at MML, additional antibodies, change in CPT coding. Change in ref ranges and reporting. 4/22/2013: RBC Type I no longer reported. Updated names for RBC Types II and III. 3/1/2017: Collect tube update.