Reporting Title: Hemolytic Anemia Evaluation
Performing Location: Rochester

Specimen Requirements:

See Recommendations for Collection of Control Specimens for FRAG, HSEP, and HAEVP in Special Instructions.

Specimens must arrive within 96 hours of draw and on Monday through Friday only.

Two whole blood EDTA specimens and 2 whole blood ACD specimens in addition to an EDTA control specimen are required. Include 2 well-made peripheral blood smears, Wright stained or fixed in absolute methanol.

Patient:
Container/Tube: Lavender top (EDTA) and yellow top (ACD [solution B])
Specimen Volume:
EDTA: Two 5-mL vials
ACD (solution B): Two 6-mL vials
Slides: Two peripheral blood smears, Wright stained or fixed in absolute methanol
Collection Instructions:
1. Immediately refrigerate specimens after draw.
2. Do not transfer blood to other containers.
3. Prepare smears.
4. Rubber band patient specimen and control vial together.
Additional Information:
1. Patient's age and sex are required.
2. For information on thalassemias and appropriate test ordering, see Thalassemia Tests in Special Instructions.
Forms:
1. New York Clients-Informed consent is required. Please document on the request form or electronic order that a copy is on file. An Informed Consent for Genetic Testing (Supply T576) is available in Special Instructions.
2. Thalassemia/Hemoglobinopathy Information Sheet (Supply T358) is available in Special Instructions
3. If not ordering electronically, please submit a Hematopathology/Molecular Oncology Request Form (Supply T241) with the specimen.

Normal Control:
Container/Tube: Lavender top (EDTA)
Specimen Volume: 5-mL
Collection Instructions:
1. Draw a control specimen at the same time from a normal, unrelated, non-smoking individual.
2. Clearly write normal control on outermost label and also indicate sex of control on the same label.
3. Immediately refrigerate specimens after draw.
4. Do not transfer blood to other containers.
5. Rubber band control vial and patient specimen together.

Specimen Type	Temperature	Time
Control	Refrigerated	4 days

Whole blood	Refrigerated	4 days
Whole Blood EDTA	Refrigerated	4 days
Whole Blood Slide	Refrigerated	

Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Type	Reportable
SCTRL	SCTRL	Sex of Control Vial: • Male • Female	Answer List	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
9992	Hemolytic Anemia Interpretation	Alphanumeric		59466-3
2381	Hemoglobin A2 **Also used by tests: A2F**	Numeric	%	4551-8
2382	Hemoglobin F **Also used by tests: A2F**	Numeric	%	4576-5
2380	Hemoglobin A	Numeric	%	20572-4
2383	Variant	Alphanumeric	%	32017-6
29224	Variant 2	Alphanumeric	%	In Process
29225	Variant 3	Alphanumeric	%	In Process
2101	Interpretation	Alphanumeric		49316-3
9095	Hemoglobin, Unstable, B **Also used by tests: UNHB**	Alphanumeric		4639-1
9064	Osmotic Fragility, RBC	Numeric		34964-7
3306	Osmotic Fragility, 0.50 g/dL NaCl	Numeric	%hemol	23915-2
3307	Osmotic Fragility, 0.60 g/dL NaCl	Numeric	%hemol	23917-8
3308	Osmotic Fragility, 0.65 g/dL NaCl	Numeric	%hemol	23919-4
3309	Osmotic Fragility, 0.75 g/dL NaCl	Numeric	%hemol	30543-3
3310	Osmotic Fragility Comment	Alphanumeric		In Process

Result ID	Reporting Name	Type	Unit	LOINC®
SCTRL	Sex of Control Vial	Alphanumeric		N/A
G6PD_	G-6-PD, QN, RBC **Also used by tests: G6PD**	Numeric	U/g Hb	32546-4
PK_	Pyruvate Kinase, RBC **Also used by tests: PK**	Numeric	U/g Hb	32552-2
GPI_	Glucose Phosphate Isomerase, B **Also used by tests: GPI**	Numeric	U/g Hb	44050-3
HEXK_	Hexokinase, B	Numeric	U/g Hb	49216-5
13082	Morphology Review	Alphanumeric		In Process

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
HAEV	Hemolytic Anemia Interpretation			Yes	Yes
Billing only	Osmotic Fragility, RBC	1	85557		
A2F	Hemoglobin A2 and F	1	83021	Yes	Yes
HBEL	Hemoglobin Electrophoresis, B	1	83020	Yes	No
UNHB	Hemoglobin, Unstable, B	1	83068	Yes	Yes
FRAGO	Osmotic Fragility			Yes	No
SCTRL	Sex of Control Vial			Yes	No
G6PD	G-6-PD, QN, RBC	1	82955	Yes	Yes
PK	Pyruvate Kinase, RBC	1	84220	Yes	Yes
GPI	Glucose Phosphate Isomerase, B	1	84087	Yes	Yes
HEXK	Hexokinase, B	1	82657	Yes	No
PBSM	Morphology Review	1	85060	Yes	No

Reflex Tests:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
GLTI	Glutathione, B	1	82978	No	No
HPFH	Hemoglobin F, Red Cell Distrib, B	1	88184	No	Yes
SDEX	Hemoglobin S, Scrn, B	1	85660	No	Yes
IEF	IEF Confirms	1	82664	No	No
BND3	Band 3 Fluorescence Staining, RBC	1	88184	No	No
MASS	Hb Variant by Mass Spec, B	1	83789	No	No
RBCE	Reflexed RBC Enzymes		Profile	No	No
HGBMO	HGB Electrophoresis, Molecular		Profile	No	No

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
GLTI	2635	Glutathione, B	Numeric	mg/dL RBC	2383-8
HPFH	8270	Hemoglobin F, Red Cell Distrib, B	Alphanumeric		4579-9
HPFH	2104	Interpretation	Alphanumeric		59466-3
SDEX	9180	Hemoglobin S, Scrn, B	Alphanumeric		4621-9
IEF	81644	IEF Confirms	Alphanumeric		49316-3
BND3	83141	Band 3 Fluorescence Staining, RBC	Alphanumeric		In Process
MASS	60286	Hb Variant by Mass Spec, B	Alphanumeric		In Process
RBCE	ADA_	Adenosine Deaminase, B	Numeric	U/g Hb	47549-1
RBCE	AK_	Adenylate Kinase, B	Numeric	U/g Hb	44051-1
RBCE	PFK_	Phosphofructokinase, RBC	Numeric	U/g Hb	44052-9
RBCE	PGK_	Phosphoglycerate Kinase, B	Numeric	U/g Hb	44053-7
RBCE	TPI_	Triosephosphate Isomerase, B	Numeric	U/g Hb	44054-5
RBCE	2734	Pyrimidine 5' Nucleotidase, B	Alphanumeric		2902-5
HGBMO	88997	Alpha Globin Gene Sequencing	Alphanumeric		In Process
HGBMO	88998	Beta Globin Gene Sequencing	Alphanumeric		50996-8
HGBMO	89573	Alpha Globin Gene Sequence	Alphanumeric		21687-9

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
HGBMO	89405	Beta Globin Gene Sequence	Alphanumeric		50996-8
HGBMO	89575	Beta Globin Gene Del/Dup	Alphanumeric		21689-5
HGBMO	29375	Manual DNA Extraction	Alphanumeric		N/A

Reference Values:

Definitive results and an interpretive report will be provided.