Reporting Title: Erythrocytosis Evaluation
Performing Location: Rochester

Specimen Requirements:

See Recommendations for Collection of Control Specimens for p50 and REVP in Special Instructions.

A total of 3 specimens are required to perform this profile; all 3 specimens must arrive within 72 hours of draw:
-Whole blood EDTA for A2F, HBEL, IEF
-Whole blood sodium heparin for P50*
-Control: Whole blood sodium heparin for P50*
*Please note: If no sodium heparin patient or control specimens are received, the P50 test cannot be performed.

Patient:
Container/Tube: Lavender top (EDTA) and green top (heparin)
Specimen Volume:
EDTA: 5 mL
Heparin: 4 mL
Collection Instructions:
1. Immediately refrigerate specimens after draw.
2. Do not transfer blood to other containers.
3. 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. Erythrocytosis Patient Information Sheet (Supply T694) is available in Special Instructions.
4. If not ordering electronically, please submit a Hematopathology/Molecular Oncology Request Form (Supply T241) with the specimen.

Normal Control:
Container/Tube: Green top (heparin)
Specimen Volume: 4 mL
Collection Instructions:
1. Draw a control specimen at the same time from a normal, unrelated, nonsmoking individual.
2. Clearly write normal control on outermost 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	72 hours

WB Sodium Heparin	Refrigerated	72 hours
Whole blood	Refrigerated	72 hours

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
174	Erythrocytosis Interpretation	Alphanumeric		In Process
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
9110	Oxygen Dissociation P50, RBC	Numeric	mm Hg	19214-6
2103	P-50	Alphanumeric		In Process
81644	IEF Confirms	Alphanumeric		49316-3

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
Billing only	Oxygen Diss. P50, Blood	1	82820		
REV	Erythrocytosis Interpretation			Yes	No
A2F	Hemoglobin A2 and F	1	83021	Yes	Yes
HBEL	Hemoglobin Electrophoresis, B	1	83020	Yes	No
P50X	Oxygen Dissociation P50			Yes	No (Order P50)
P50C	P50 Interpretation			Yes	No (Order P50)
IEF	IEF Confirms	1	82664	Yes	No

Reflex Tests:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
HPFH	Hemoglobin F, Red Cell Distrib, B	1	88184	No	Yes
UNHB	Hemoglobin, Unstable, B	1	83068	No	Yes
SDEX	Hemoglobin S, Scrn, B	1	85660	No	Yes
HGBMO	HGB Electrophoresis, Molecular		Profile	No	No
MASS	Hb Variant by Mass Spec, B	1	83789	No	No
HEMP	Hereditary Erythrocytosis Mut, B	1	81479	No	Yes
VHLSP	VHL Full Gene Analysis	1	81404	No	Yes
VHDD	VHL Deletion Detection	1	81403	No	Yes (order VHLD)

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
HPFH	8270	Hemoglobin F, Red Cell Distrib, B	Alphanumeric		4579-9
HPFH	2104	Interpretation	Alphanumeric		59466-3
UNHB	9095	Hemoglobin, Unstable, B	Alphanumeric		4639-1
SDEX	9180	Hemoglobin S, Scrn, B	Alphanumeric		4621-9
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
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
MASS	60286	Hb Variant by Mass Spec, B	Alphanumeric		In Process
HEMP	34648	Molecular Interpretation	Alphanumeric		In Process
HEMP	35000	Reviewed By	Numeric		N/A
HEMP	34645	EPOR Gene Sequencing Result	Alphanumeric		In Process
HEMP	34647	HIF2A Gene Sequencing Result	Alphanumeric		In Process
HEMP	34646	PHD2 Gene Sequencing Result	Alphanumeric		In Process

Reference Values:

Definitive results and an interpretive report will be provided.