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**Reporting Title:** Osmotic Fragility, RBC**Performing Location:** Rochester**Ordering Guidance:****Additional Testing Requirements:****Shipping Instructions:**

Specimens must arrive within 72 hours of collection.

**Necessary Information:**

Patient's age is required.

**Specimen Requirements:**

Both a whole blood EDTA specimen and a shipping control specimen are required. The shipping control specimen is used to evaluate whether a patient result has been compromised by handling conditions such as temperature, motion, or other transportation interferences. Temperature and handling extremes can adversely impact the integrity of the specimen.

**Patient:****Specimen Type:** Whole blood**Container/Tube:** Lavender top (EDTA)**Specimen Volume:** 4 mL**Collection Instructions:**

1. Refrigerate specimen immediately after collection.
2. Send whole blood specimen in original tube. **Do not aliquot.**
3. Rubber band patient specimen and control vial together.

**Normal Shipping Control:****Specimen Type:** Whole blood**Container/Tube:** Lavender top (EDTA)**Specimen Volume:** 4 mL**Collection Instructions:**

1. Collect a shipping control specimen from a normal (healthy), unrelated, nonsmoking person at the same time as the patient.
2. Clearly **hand write "normal control"** on the outermost label.
3. Refrigerate specimen immediately after collection.
4. Send control specimen in original tube. **Do not aliquot.**
5. Rubber band patient specimen and control vial together. The control and patient specimen must be handled in the same manner from specimen collection to receipt in the testing laboratory.

**Forms:**If not ordering electronically, complete, print, and send a [Benign Hematology Test Request](#) (T755) with the specimen.

Specimen Type	Temperature	Time	Special Container
Control	Refrigerated	72 hours	PURPLE OR PINK TOP/EDTA
Whole Blood EDTA	Refrigerated	72 hours	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
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	23918-6
3308	Osmotic Fragility, 0.65 g/dL NaCl	Numeric	%hemol	23920-2
3309	Osmotic Fragility, 0.75 g/dL NaCl	Numeric	%hemol	23921-0
3310	Osmotic Fragility Comment	Alphanumeric		59466-3
SCTRL	Shipping Control Vial	Alphanumeric		40431-9

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

Components:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
FRAGO	Osmotic Fragility	1	85557	Yes	No
SCTRL	Shipping Control Vial			Yes	No

CPT Code Information:

85557

Reference Values:

> or =12 months:

- 0.50 g/dL NaCl (unincubated): 3-53% hemolysis
- 0.60 g/dL NaCl (incubated): 14-74% hemolysis
- 0.65 g/dL NaCl (incubated): 4-40% hemolysis
- 0.75 g/dL NaCl (incubated): 1-11% hemolysis

NaCl = sodium chloride

Reference values have not been established for patients who are younger than 12 months of age.