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**Reporting Title:** Osmotic Fragility, RBC**Performing Location:** Rochester**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.

**Specimen Minimum Volume:**

Patient whole blood, shipping control: 2 mL

**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 <b>Also used by tests: FRAGO</b>	Numeric		34964-7
3306	Osmotic Fragility, 0.50 g/dL NaCl <b>Also used by tests: FRAGO</b>	Numeric	%hemol	23915-2
3307	Osmotic Fragility, 0.60 g/dL NaCl <b>Also used by tests: FRAGO</b>	Numeric	%hemol	23918-6
3308	Osmotic Fragility, 0.65 g/dL NaCl <b>Also used by tests: FRAGO</b>	Numeric	%hemol	23920-2
3309	Osmotic Fragility, 0.75 g/dL NaCl <b>Also used by tests: FRAGO</b>	Numeric	%hemol	23921-0
3310	Osmotic Fragility Comment <b>Also used by tests: FRAGO</b>	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	Orderable Separately
FRAGO	Osmotic Fragility			Yes	No
SCTRL	Shipping Control Vial			Yes	No

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**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.