

OSMOTIC FRAGILITY TEST- RBC FRAGILITY TEST

Profile Details | 1 Parameters

Fasting: Fasting is not mandatory | Report Time: Within 6 Days



Specimen Required: Blood

Price- ₹1200 ₹649

Parameters Included

About This Test

An **osmotic fragility test** (also known as an **RBC fragility test**) measures the susceptibility of red blood cells (RBCs) to hemolysis (breaking down) when exposed to varying concentrations of a hypotonic solution. Here's what the test assesses: 1. **Red Blood Cell Stability**: Determines the stability and durability of RBC membranes under stress from osmotic pressure. Healthy RBCs can withstand a certain degree of osmotic stress, while fragile RBCs will hemolyze more easily. 2. **Diagnosis of Hemolytic Anemias**: Helps diagnose certain types of hemolytic anemia, particularly those associated with hereditary spherocytosis and thalassemia. These conditions involve defects in RBC membranes that make them more prone to breaking down. 3. **Identification of Membrane Disorders**: Assists in identifying disorders of the red blood cell membrane. Increased osmotic fragility indicates that RBCs are more likely to break apart in hypotonic environments, which is a characteristic of membrane disorders. 4. **Assessment of Hemolysis**: Evaluates the extent of hemolysis in blood samples, providing insight into the severity of conditions affecting RBC integrity. In summary, the osmotic fragility test measures the vulnerability of RBCs to hemolysis in hypotonic solutions, aiding in the diagnosis of hemolytic anemias and membrane disorders.



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*Fasting 10-12 hrs essential | *Limited Period Offer | *Reports within Within 6 Days

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