Overview

Useful For
Fructose testing should be considered for patients with azoospermia and low volume ejaculates to establish the origin of the azoospermia

Method Name
A Qualitative Method Using Resorcinol

NY State Available
No

Specimen

Specimen Type
Semen

Specimen Required

Patient Preparation: Patient should have 2 to 7 days of sexual abstinence at the time of semen collection.

Submit only 1 of the following specimens:

Semen

Collection Container/Tube: Sterile container

Submission Container/Tube: Plastic container

Specimen Volume: Total ejaculate

Collection Instructions: Do not dilute specimen. Freeze specimen at -20 degrees C.

Seminal Plasma

Container/Tube: Plastic vial

Specimen Volume: 0.5 mL

Collection Instructions:

1. After semen collection, wait 30 to 40 minutes until the semen is liquefied, then centrifuge the semen for 10 minutes at maximum centrifuge speed.

2. Remove top 3/4 of specimen with a pipet and place in a plastic vial.

3. Discard remainder of centrifuged specimen.

Specimen Minimum Volume
0.5 mL
Test Definition: FROS2
Qualitative Fructose, Semen

Reject Due To

<table>
<thead>
<tr>
<th>Condition</th>
<th>Reason</th>
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<tbody>
<tr>
<td>Hemolysis</td>
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<tr>
<td>Lipemia</td>
<td>NA</td>
</tr>
<tr>
<td>Icterus</td>
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<tr>
<td>Other</td>
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Specimen Stability Information

<table>
<thead>
<tr>
<th>Specimen Type</th>
<th>Temperature</th>
<th>Time</th>
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<tbody>
<tr>
<td>Semen</td>
<td>Frozen</td>
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Clinical and Interpretive

Clinical Information
Fructose is produced in the male reproductive tract by the seminal vesicles and is released into the semen during ejaculation. Fructose is the energy source for sperm motility.

Reference Values

Positive Interpretation

A positive (indicated by color change) fructose is considered normal.

A semen specimen that contains no sperm (azoospermia) and is fructose negative may indicate an absence of the seminal vesicles, absence of the vas deferens in the area of the seminal vesicles, or an obstruction at the level of the seminal vesicles.

Cautions
This test should be performed in conjunction with a semen analysis to determine semen volume, pH, sperm concentration, motility, and grade of forward progression.

Fructose test must be on a separate ejaculate (DO NOT dilute specimen).

Clinical Reference

Performance

Method Description
A qualitative method using resorcinol will detect the presence or absence of fructose.(Keel BA, Webster BW: CRC Handbook of the Laboratory Diagnosis and Treatment of Infertility. Boca Raton, FL, CRC Press, 1990, pp 49)
No

**Day(s) and Time(s) Test Performed**
Set up on Friday

**Analytic Time**
1 day

**Maximum Laboratory Time**
7 days

**Specimen Retention Time**
Specimens are discarded after testing

**Performing Laboratory Location**
Rochester

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### Fees and Codes

**Fees**
- Authorized users can sign in to [Test Prices](#) for detailed fee information.
- Clients without access to Test Prices can contact [Customer Service](#) 24 hours a day, seven days a week.
- Prospective clients should contact their Regional Manager. For assistance, contact [Customer Service](#).

**Test Classification**
This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

**CPT Code Information**
82757

**LOINC® Information**

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<th>Test Order Name</th>
<th>Order LOINC Value</th>
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<td>FROS2</td>
<td>Qualitative Fructose,Semen</td>
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