**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
Reject Due To
All specimens will be evaluated by Mayo Clinic Laboratories for test suitability.

Specimen Stability Information

<table>
<thead>
<tr>
<th>Specimen Type</th>
<th>Temperature</th>
<th>Time</th>
<th>Special Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semen</td>
<td>Frozen</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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)

PDF Report
No

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

Analytic Time

Document generated April 12, 2020 at 5:37am CDT
1 day

**Maximum Laboratory Time**
7 days

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

**Performing Laboratory Location**
Rochester

### 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**

<table>
<thead>
<tr>
<th>Test ID</th>
<th>Test Order Name</th>
<th>Order LOINC Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>FROS2</td>
<td>Qualitative Fructose,Semen</td>
<td>13943-6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Result ID</th>
<th>Test Result Name</th>
<th>Result LOINC Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRUCS</td>
<td>Fructose, Semen/Seminal P</td>
<td>13943-6</td>
</tr>
<tr>
<td>CLSM</td>
<td>Collection Site</td>
<td>56816-2</td>
</tr>
<tr>
<td>VOLSM</td>
<td>Semen Volume</td>
<td>3160-9</td>
</tr>
<tr>
<td>CMT49</td>
<td>Comment</td>
<td>48767-8</td>
</tr>
</tbody>
</table>