Overview

Useful For
Establishing the origin of azoospermia in patients with azoospermia and low volume ejaculates

Method Name
Qualitative

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:

Specimen Type: 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.

Specimen Type: 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. Freeze specimen at -20 degrees C.

3. Discard remainder of centrifuged specimen.

Specimen Minimum Volume
0.5 mL
Reject Due To
All specimens will be evaluated at Mayo Clinic Laboratories for test suitability.

Specimen Stability Information

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<tr>
<th>Specimen Type</th>
<th>Temperature</th>
<th>Time</th>
<th>Special Container</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.

Clinical Reference
2. Risz B, Agarwal A, Sabanegh ES, eds: Male Infertility in Reproductive Medicine: Diagnosis and Management. CRC Press; 2019

Performance

Method Description
A qualitative method using resorcinol will detect the presence or absence of fructose. (Keel BA, Webster BW: Handbook of the Laboratory Diagnosis and Treatment of Infertility. CRC Press: 1990:49)

PDF Report
No

Day(s) and Time(s) Test Performed
Test Definition: FROS2  
Qualitative Fructose, Semen

Set up on Friday

Analytic Time
1 day

Maximum Laboratory Time
7 days

Specimen Retention Time
Not retained

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

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