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Fructose (Qualitative)

bio-marker of seminal vesicle activity

REF SP/SFT/F-012-A



IVD

User Manual



Turnaround time for test: 2 min



Store at: 2°C - 8°C after receiving

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Concept

Poor quality semen may result from abnormal sperm production in testis, post testicular sperm damage in epididymis or abnormal ejaculate from accessory glands.

Seminal plasma receives contribution from seminal vesical, prostate & accessory glands. Seminal vesical secretions contribute 2/3 volume. Its main ingredients are fructose, prostaglandin & coagulating proteins.

The normal function of the seminal vesicle is important for fertility. parameters as motility, sperm chromatin stability & immune protection are affected in case of hypofunction of seminal vesicles.

Seminal vesicle secretions also protects sperm from ROS present in semen produced by leukocytes or sperm itself.

Fructose is the major energy substrate of sperm metabolism (Glycolytic, anaerobic) and is important for the maintenance of sperm motility.

Fructose serves as a bio-marker for seminal vesicle function.

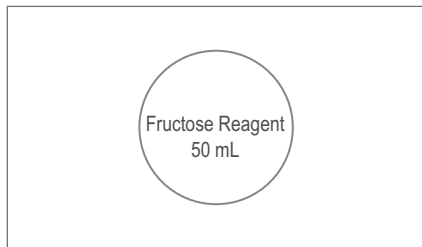
- Semen sample is collected with :
 - **Abstinence period** of **2-7days**.
 - **Ideal collection** through **masturbation** in sterile container.
 - **Non-spermicidal polyurethane semen collection pouch (Sperm Collect™)** can be used when required.
- Semen sample is allowed to liquefy and then well mixed for performing test.
- Ideally test is to be performed within 30 to 60 min of collection.

Special Instructions :

- **Hyperviscous** semen sample should be processed to bring towards normal viscosity. (**Viscosity-CH™** or **Viscosity-BR™** kit can be used).

- Fructose Reagent : 50 mL

Content Box Diagram :



Storage Conditions :

- The kit should be stored in dark at 2°C - 8°C after receiving.
- Bring all the reagents to room temperature before use.
- Once opened, store reagents in the fridge protected from light.
- Expiry date is printed on the out side of the box.

REQUIRED BUT NOT PROVIDED IN KIT

- Controlled Temperature 37°C Dry bath
(Sperm Warmer™ / Water bath)
- Pipettes Set
- Stopwatch
- Microtip Box
- Test Tube Stand
- Burner / Spirit Lamp (Facility to boil)

REQUIRED BUT NOT PROVIDED IN KIT

- Hand gloves
- Semen Collection Container
- Non-spermicidal Semen Collection Pouch
(Sperm Collect™)
- Microtips
- Pasteur Pipettes
- Test Tubes

Step 1 :

Label plastic ware & disposable materials with appropriate **Patient ID & Sample ID.**

Step 2 :

Take 1 mL of fructose reagent in a glass test tube.

Step 3 :

Add **0.1 mL** of specimen.

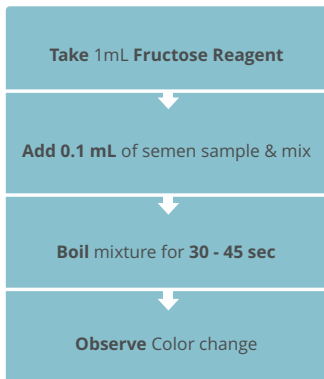
Step 4 :

Boil it for **30 to 45** sec.

Step 5 :

Observe the change in colour.

Quick Glance



- Change in color from colorless to red tone to be observed.

COLOR CHANGE

- Colorless to Red tone : Fructose Present
- No Color change : Fructose Absent

NOTE :

In between confirm the result of No Color change with known fructose positive sample.

Limitations :

- This test provides presumptive quantitative information of sperm.
- This parameter should be analyzed by a specialist.
- The result should be evaluated taking into account all clinical & laboratory findings related to the same sample.

- All patient samples & reagents should be treated as potentially infectious & the user must wear protective gloves, eye protection & laboratory coats when performing the test.
- The kit should be discarded in a proper biohazard container after testing.
- Do not eat, drink or smoke in the area where specimens & kit reagents are handled.
- Do not use beyond the expiration date which appears on the package label.
- It is recommended to use of gloves & face mask.

- Do not release the products used into the environment. Follow centre guidelines for the storage & disposal of toxic substances.
- Biological samples must be handled as potentially infectious.



consult instructions of use



product reference



lot number



use by



manufacturer

health surveillance device
for in-vitro diagnostic

contains sufficient for 'n' tests



temperature limitation



keep dry



CE mark (Conformité Européene)

Accreditations & Registered Certificates

- **ISO 13485 : 2003** Certified
- **CE** Certified
- **GMDN** Registered
- **US FDA** Registered

For more information & procedure videos

 www.spermprocessor.com/sft-fructose.html



 www.youtube.com/watch?v=RO5sDGp0_h8

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