

**Reporting Title:** Semen Analysis  
**Performing Location:** Rochester

**Ordering Guidance:**

This test should not be used to check patient's sterility following a vasectomy. For such cases, order POSV / Post Vasectomy Check, Semen.

**Semen analysis specimens submitted to Mayo Clinic Laboratories are not acceptable for** fructose testing due to the use of dilution media. For specimen requirements for fructose testing in azoospermia patients, see FROS2 / Fructose, [Qualitative](#), Semen.

Submit separate specimen to rule-out ejaculatory duct blockage. Positive result indicates no blockage.

**Shipping Instructions:**

**Specimen must arrive within 24 hours of collection. Send specimen Monday through Thursday only and not the day before a holiday.** If holiday falls on a Saturday, holiday will be observed on the preceding Friday. Sunday holidays are observed on the following Monday. Specimen should be collected and packaged as close to shipping time as possible. Laboratory does not perform testing on weekends.

**Necessary Information:**

Include the following information:

- Semen volume (required)
- Viscosity
- pH
- Appearance (color)
- Number of days of sexual abstinence

**Specimen Requirements:**

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

**Supplies:** Semen Analysis Kit - Dilution Media (T178)

**Specimen Volume:** Total ejaculate

**Collection Instructions:**

See complete Semen Collection instructions included with the kit.

1. Prior to use, allow dilution medium to warm to room temperature for 45 to 60 minutes.
2. Allow semen to liquefy at room temperature for up to 30 minutes.
3. Use sterile volumetric pipet or tube for volume measurement.
4. Pour liquefied semen into 50-mL dilution medium container within 60 minutes of semen collection time, cap tightly, but do not overtighten, and gently mix.

**Note:** Proper temperature maintenance of specimen throughout processing and shipping is critical. All materials the specimen is exposed to should be at room temperature (20-28 degrees C).

| Specimen Type | Temperature | Time | Special Container |
|---------------|-------------|------|-------------------|
| Semen         | Ambient     |      |                   |

Result Codes:

| Result ID | Reporting Name   | Type         | Unit   | LOINC®     |
|-----------|------------------|--------------|--------|------------|
| ABSTN     | Abstinence       | Numeric      | d      | 10587-4    |
| CLST1     | Collection Site  | Alphanumeric |        | 56816-2    |
| TY        | Study Type       | Alphanumeric |        | 54453-6    |
| CNTN      | Container Type   | Alphanumeric |        | 74384-9    |
| APP3      | Appearance       | Alphanumeric |        | 13359-5    |
| VL53      | Semen Volume     | Numeric      | mL     | 3160-9     |
| PH1       | pH               | Numeric      |        | 2752-4     |
| MOTML     | Motile/mL        | Numeric      | x10(6) | 42531-4    |
| SPML      | Sperm/mL         | Numeric      | x10(6) | 9780-8     |
| MOTY      | Motility         | Numeric      | %      | In Process |
| GR2       | Grade            | Numeric      |        | 13942-8    |
| MOTEJ     | Motile/Ejaculate | Numeric      | x10(6) | In Process |
| VISC      | Viscosity        | Numeric      |        | 32789-0    |
| AGGLU     | Agglutination    | Numeric      |        | 33217-1    |
| STAIN     | Supravital Stain | Numeric      | % live | 101570-0   |
| FRCT      | Fructose         | Alphanumeric |        | 13943-6    |
| CMT45     | Comment          | Alphanumeric |        | 48767-8    |

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

89310

Reference Values:

Appearance: Normal

Volume: > or =1.5 mL

pH: > or =7.2

Motile/mL: > or =6.0 x 10(6)

Sperm/mL: > or =15.0 x 10(6)

Motility: > or =40%

Grade: > or =2.5

**Note:** Multiple laboratory studies have indicated that semen parameters for motility and grade, on average, retain 80% of original parameters when our shipping method is used for transport. Using these averages, samples with 32% to 39% motility and grade of 2 may be in the normal range if testing was performed shortly after collection. Therefore, these borderline patients may need to collect another sample at a local fertility center to verify fertility status.

Motile/ejaculate: > or =9.0 x 10(6)

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Viscosity: > or =3.0  
Agglutination: > or =3.0  
Supravital: > or =58% live  
Fructose: Positive

**Note:** Fructose testing cannot be performed on semen analysis specimens shipped through Mayo Clinic Laboratories.

Submit separate specimen to rule out ejaculatory duct blockage. Positive result indicates no blockage.