
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 Minimum Volume:

See Specimen Required

Specimen Type	Temperature	Time	Special Container
Semen	Ambient		

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
ABSTN	Abstinence Also used by tests: POSV	Numeric	d	10587-4
CLST1	Collection Site Also used by tests: POSV	Alphanumeric		56816-2
TY	Study Type	Alphanumeric		54453-6
CNTN	Container Type	Alphanumeric		74384-9
APP3	Appearance	Alphanumeric		13359-5
VL53	Semen Volume Also used by tests: POSV	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	%	6800-7
GR2	Grade	Numeric		13942-8
MOTEJ	Motile/Ejaculate	Numeric	x10(6)	6800-7
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: ≥ 1.5 mLpH: ≥ 7.2 Motile/mL: $\geq 6.0 \times 10^6$ Sperm/mL: $\geq 15.0 \times 10^6$ Motility: $\geq 40\%$ Grade: ≥ 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: $\geq 9.0 \times 10^6$ Viscosity: ≤ 3.0 Agglutination: ≤ 3.0 Supravital: $\geq 58\%$ 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.