



## **Strict Criteria Sperm Morphology for Infertility Diagnosis and Treatment, Semen**

Test ID: MSTC1

**USEFUL FOR:**

- Diagnosing male infertility
- Selecting the most cost-effective therapy for treating male-factor infertility
- Quantifying the number of germinal and WBCs per mL of semen. High numbers of germinal cells and WBCs are indicative of possible disorders in spermatogenesis and genital tract infection, respectively.

**NOTE:** This test replaces Strict Criteria Morphology (MSTC) for clients that send air dried slides only.

**METHODOLOGY:** Kruger Criteria Strict Morphology

**REFERENCE VALUES:**

Normal forms: > or =4.5%

Germinal cells/mL <4.00 x 10(6) (normal)

> or =4.00 x 10(6) (elevated germinal cells in semen are of unknown clinical significance)

WBC/mL <1.00 x 10(6) (normal)

> or =1.00 x 10(6) (elevated white blood cells in semen are of questionable clinical significance)

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

**Container/Tube:** Slides

**Specimen Volume:** 2 slides-10 microL of liquefied semen on each slide

**Collection Instructions:**

1. If sperm concentration is <10 million/mL, centrifuge the specimen at 300 x G for 10 minutes before making slides.
2. Label 2 frosted slides in pencil with the patient's first and last name and the date of specimen collection.
3. Allow the semen to liquefy for 30 minutes. Then place 10 microL of liquefied semen on the label end of each slide, and evenly smear the specimen using a plain slide (this process is the same as making a blood smear).
4. Allow the smears to air dry for 15 minutes before placing the slides into a slide holder for shipment.

**Additional Information:** Sperm concentration/mL is required.

**SPECIMEN STABILITY INFORMATION:**

Specimen Type	Temperature	Time
Semen	Ambient	

**CAUTIONS:** Conventional semen analysis (FER / Semen Analysis) should be performed in conjunction with each strict criteria sperm morphology.

**CPT CODE:** 89398

**ANALYTIC TIME:** 2 days

**DAY(S) SET UP:** Monday through Friday; 3 p.m.

Send specimen Monday through Thursday only and not the day before a holiday.

**QUESTIONS:** Contact your Mayo Medical Laboratories' Regional Manager or Marvin H. Anderson, Jr., MML Laboratory Technologist Resource Coordinator  
Telephone: 800-533-1710