

FORENSIC BIOLOGY SEROLOGY PROCUDURES MANUAL

SERATEC® PSA SEMIQUANT AND α -AMYLASE TESTS		
DATE EFFECTIVE 06-20-2016	APPROVED BY SEROLOGY TECHNICAL LEADER	PAGE 1 OF 5

Seratec® PSA Semiquant and a-Amylase Tests

A. Sample Preparation and Antigen Extraction (for both tests):

1. Make a 1/4 cutting for swabs, or ~ 3 mm x 3 mm for stains.
2. Add the cuttings to separately labeled 1.5 mL Eppendorf tubes.
3. Add 0.5 mL Phosphate Buffered Saline (PBS) solution to each sample. Record the PBS lot number.
4. Place the tubes on the Thermomixer. Shake at 300 RPM at room temperature (25°C) for 5 to 30 minutes.

Note: The same extract may be used for both Seratec® PSA Semiquant and Seratec® α -Amylase testing.

B. Seratec® PSA Semiquant Testing:

1. Record the cassette lot number. Remove the cassette from the foil pouch and label the cassette. The provided dropper may be discarded. *Do not use a cassette if the foil pouch has been opened.*
2. Prepare a 0.5 dilution by adding 100 μ L of each extract to 100 μ L PBS in a separately labeled Eppendorf tube.
3. Aliquot the full 200 μ L of each 0.5 dilution into the test chamber of a new Seratec® PSA Semiquant card.
4. Read results at **10 minutes**. Record the results for the Internal Standard and Control by indicating positive or negative. Record the results for the test region by indicating positive or negative.

Note: Positive results may be indicated if the lines appear prior to 10 minutes; however, negative results can only be indicated after 10 minutes.

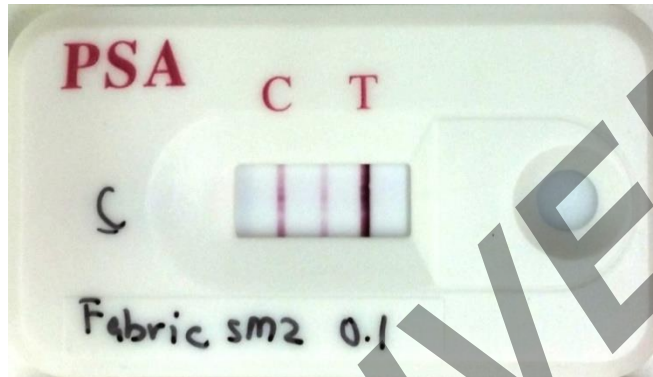
FORENSIC BIOLOGY SEROLOGY PROCUDURES MANUAL

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DATE EFFECTIVE 06-20-2016	APPROVED BY SEROLOGY TECHNICAL LEADER	PAGE 2 OF 5
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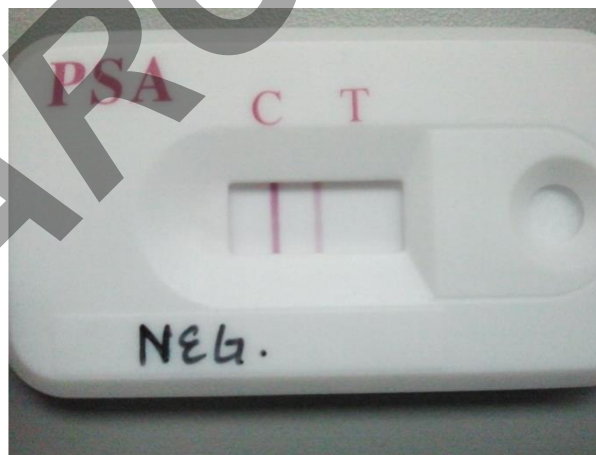
5. Interpretation of overall Seratec® PSA Semiquant Test:

a. Positive (three lines):



- i. A line appears in both the Internal Standard and Control regions, and
- ii. A positive line appears within the test region. *Note: weak or strong positive may be indicated within the exam notes.*

b. Negative (two lines):



- i. Line appears in both the Internal Standard and Control regions, and
- ii. No line appears in the test region.

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FORENSIC BIOLOGY SEROLOGY PROCUDURES MANUAL

SERATEC® PSA SEMIQUANT AND α -AMYLASE TESTS

DATE EFFECTIVE 06-20-2016	APPROVED BY SEROLOGY TECHNICAL LEADER	PAGE 3 OF 5
------------------------------	--	----------------

- c. Fail:
- i. A line does not appear in either the Internal Standard and/or Control regions.
 - ii. An incomplete line appears in the Internal Standard, Control, and/or Test Region.



An example of an incomplete line at the Test Region

If a test fails, the test must be repeated by performing Steps 1-5 in Section B, “Seratec® PSA Semiquant Testing”, on a new Seratec® PSA Semiquant card.

FORENSIC BIOLOGY SEROLOGY PROCUDURES MANUAL

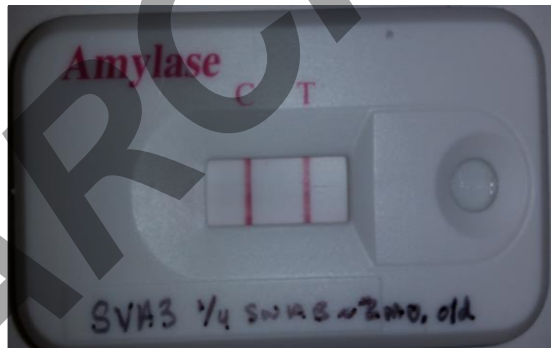
SERATEC® PSA SEMIQUANT AND α -AMYLASE TESTS		
DATE EFFECTIVE 06-20-2016	APPROVED BY SEROLOGY TECHNICAL LEADER	PAGE 4 OF 5

C. Seratec® α -Amylase Testing:

1. Record the cassette lot number. Remove the cassette from the foil pouch and label the cassette. The provided dropper may be discarded. *Do not use a cassette if the foil pouch has been opened.*
2. Aliquot 200 μ L of each extract (no dilution) directly into the test chamber of the Seratec® α -Amylase card.
3. Read results at **10 minutes**. Record the results for the Control by indicating positive or negative. Record the results for the test region by indicating positive or negative.

Note: Positive results may be indicated if the lines appear prior to 10 minutes; however, negative results can only be indicated after 10 minutes.

4. Interpretation of overall Seratec® α -Amylase Test:
 - a. Positive (two lines):

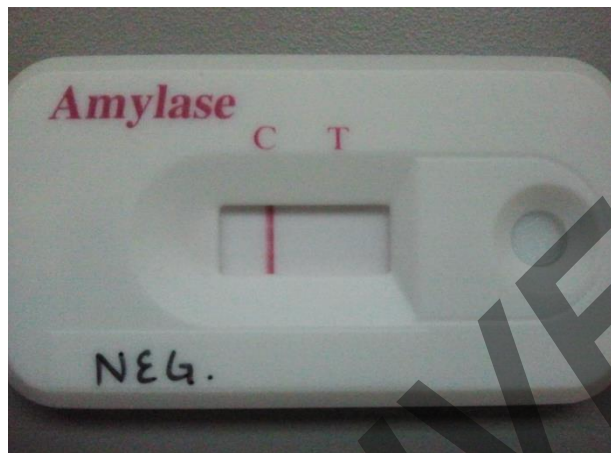


- i. A line appears in Control region, and
- ii. A positive line appears within the test region. *Note: weak or strong positive may be indicated within the exam notes.*

FORENSIC BIOLOGY SEROLOGY PROCUDURES MANUAL

SERATEC® PSA SEMIQUANT AND α -AMYLASE TESTS		
DATE EFFECTIVE 06-20-2016	APPROVED BY SEROLOGY TECHNICAL LEADER	PAGE 5 OF 5

b. Negative (one line):



- i. A line appears in Control region, and
- ii. No line appears in the test region.

c. Fail:

- i. A line does not appear in the Control region.
- ii. An incomplete line appears in the Control, and/or Test Region.

If a test fails, the test must be repeated by performing steps 1-4 in section C, Seratec® α -Amylase Testing, on a new Seratec® α -Amylase card.