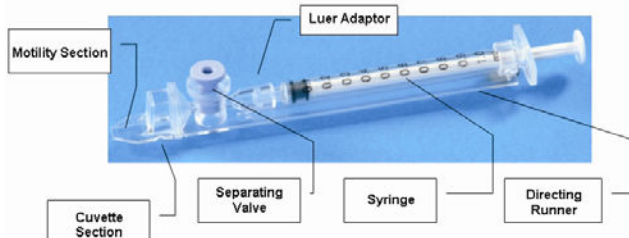


# Motility Longevity Testing on the SQA-V GOLD

Issue date: March 18, 2010

## Overview:

- Motility longevity testing is a requirement in many laboratories and is part of the routine semen analysis.
- This type of test can easily be run using ONE SQA-V testing capillary by following the instructions below.



## Protocol:

- Collect a semen sample per WHO guidelines and allow it to liquefy for 1 hour.

### TEST #1: ZERO HOUR

- Fill the SQA-V testing capillary following the User Guide instructions for a NORMAL volume sample.
- Aspirate sample into the syringe to the 0.2 mark beyond the leur adaptor (see Figure 1)
- Run the test as a FRESH sample; Print the test results and transfer to V-Sperm.
- Keep the sample in the capillary as is and set it aside for 3 hours.

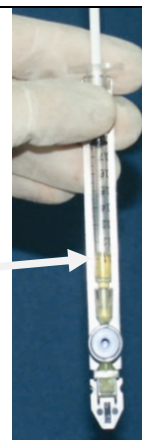


Figure 1: Fill the testing capillary to the 0.2 mark

### TEST #2: +3 HOURS from ZERO HOUR

At 3 hours from ZERO hour, prepare the sample for testing by back-filling the capillary section of the SQA-V testing capillary:

- Using the white jig, re-position the blue valve of the testing capillary (Figure 2).
- Using the plunger of the syringe, gently express about 20 $\mu$ l out of the tip of the SQA-V testing capillary. This provides a NEW sample in the motility section of the SQA-V testing capillary from the Cuvette section.
- Gently push the blue valve back into place (Figure 3). Check to see that the motility section is filled without a meniscus or bubbles. Express more semen if there is a problem. Wipe the tip.
- Run the test as a FRESH sample, differentiating the sample number so that the V-Sperm will accept this as a unique test.
- Print the results and transfer to V-Sperm.



Figure 2: Reposition the blue valve

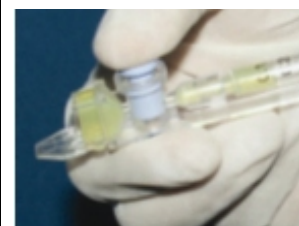


Figure 3: Press the blue valve into place.



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### **TEST #3: +6 HOURS from ZERO HOUR**

At 6 hours from ZERO hour, prepare the sample for testing by back-filling the capillary section of the SQA-V testing capillary in the same manner as at +3 hours above.

- Using the white jig, re-position the blue valve of the testing capillary (Figure 2).
- Using the plunger of the syringe, gently express about 20µl out of the tip of the SQA-V testing capillary. This provides a NEW sample in the motility section of the SQA-V testing capillary from the Cuvette section.
- Gently push the blue valve back into place (Figure 3). Check to see that the motility section is filled without a meniscus or bubbles. Express more semen if there is a problem. Wipe the tip.
- Run the test as a FRESH sample, differentiating the sample number so that the V-Sperm will accept this as a unique test.
- Print the results and transfer to V-Sperm.

### **TEST RESULTS:**

Observe the % motility readings at ZERO, +3 and +6 hours. from ZERO hour, prepare the sample for testing by back-filling the capillary section of the SQA-V testing capillary in the same manner as at +3 hours above. PLEASE NOTE: the automated morphology is not accurate at +3 and +6 hours.

#### **Approved:**

**Marcia Deutsch CEO**

**Smadar Birman, Laboratory Manager**

#### **Distribution:**

**All distributors requesting longevity testing**



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