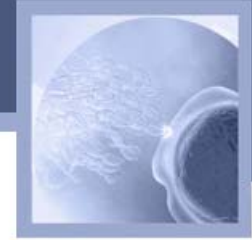




SQA-VISION TRAINING



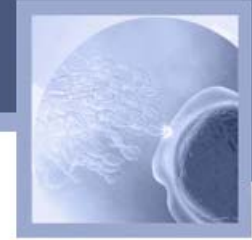
Content of Presentation



- **System overview**
- **Installation**
- **System Description**
- **System Default Settings and Loading I-Button Tests**
- **Components/Kits /Accessories**
- **Maintenance & Cleaning**



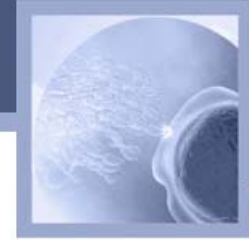
SQA-Vision Features



- High performance PC-all-in-one analytical medical device
- Combines technology in optoelectronics, computer algorithms and video microscopy
- TOUCH-SCREEN technology
- Complete semen evaluation per WHO 5th, 4th or 3rd criteria
- Tests: Fresh, Postvasectomy, Washed, Swim-up, Density gradient, Frozen semen samples and Longevity
- High resolution camera for assessing oligospermic specimens, morphology and poor quality IVF samples
- Counters/scanners for Low Quality samples, Vitality and Morphology assessment as well as for Debris/Round Cell determination



User Guide: SQA-Vision



- **System overview and technology.**
- **Complete instructions for installation, set-up and operation of the system.**
- **Appendices contain performance data, study results, control information, daily maintenance and more.**

SQA-VISION User Guide Version X.XX

SQA-VISION

USER GUIDE

Version X.XX

Catalog # VS-ML-0151-00 SQA-Vision

October 1, 2014



The SQA-Vision: Front Panel



Operational
Display

Visualization compartment:
Accommodates both an
SQA-VISION fixed cover-slip
and a standard slide.

Field of View Stage knob

Focus knob

Keypad

Automated Measurement
compartment

I-Button

Zoom magnification
x1188 - x1725



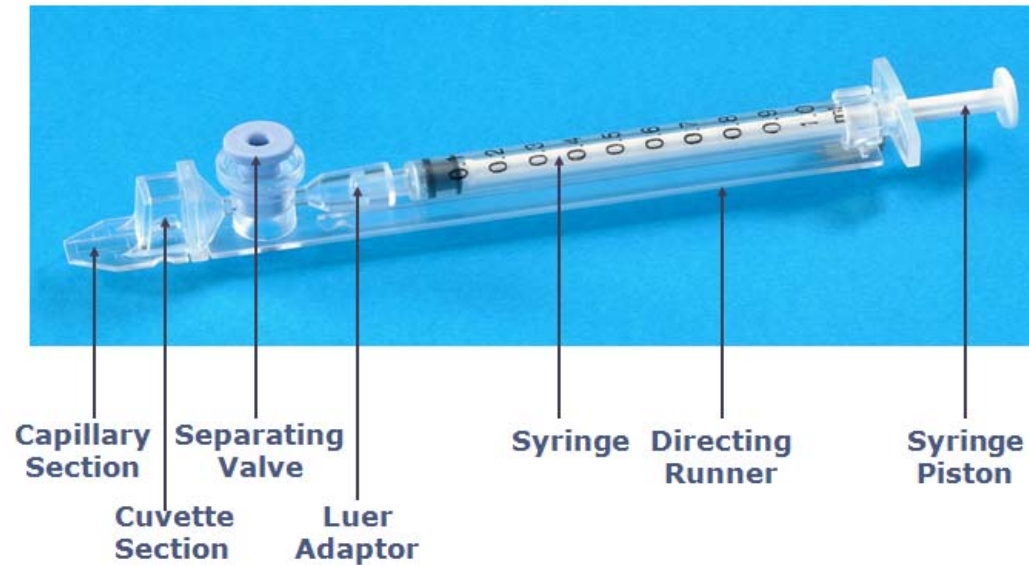
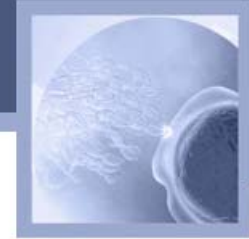
*Remember, it All Started
...With A Sperm!*

The SQA-Vision Keypad



- Press I-Button key to add more tests to the system.
- Press Service key to open the Service Menu.
- Use Zoom In / Out for changing the video magnification.
- Numeric, Enter, Esc, Delete and Arrow keys are used by the service personnel only.

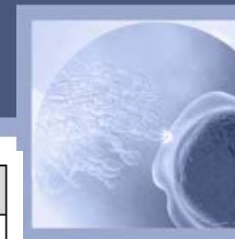
Testing Semen



Reportable range of the SQA-Vision automated results

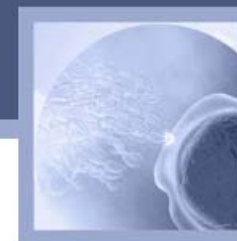
Sample Type	Sperm Conc. M/ml	Motility %	Morph %	MSC M/ml	PMSC M/ml	Motile / Immotile / Total Sperm M/ml
Fresh	<2 - 400	0 - 100	2 - 30	<0.2 - 400	0 - 400	-
Washed	<2 - 200+	0 - 100	2 - 30	<0.2 - 200+	0 - 200+	-
Swim-up, Density Gradient, Frozen	-	-	-	<0.2 - 200+	0 - 200+	-
Post-Vasectomy	-	-	-	-	-	0 - 400

Semen Parameters



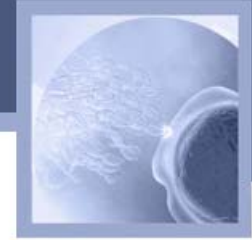
Automated Test Results			
Concentration	M/ml	Motile Sperm Concentration (MSC)	M/ml
Total Motile PR+NP	%	Progressively Motile Sperm Concentration (PMSC)	M/ml
Progressive PR	%	Functional Sperm Concentration (FSC) (Progressively motile sperm with normal morphology)	M/ml
Non-progressive NP	%	Velocity	mic/sec
Immotile IM	%	Sperm Motility Index (SMI)	#
Normal forms (WHO 5 th)	%		
TOTALS PER SEMEN VOLUME			
Sperm #	M/ejac	Functional Sperm	M/ejac
Motile Sperm	M/ejac	Morphologically Normal Sperm	M/ejac
Progressively Motile Sperm	M/ejac		
POSTVASECTOMY			
Motile, Immotile and Total Sperm	M/ml	# Motile, # Immotile and # Total Sperm/semen volume	M

Reference Values




SEMEN PARAMETER	REFERENCE VALUE*	SOURCE
Concentration (Count)	≥ 15 M/ml	WHO 5 th manual
Total Motile (PR+NP)	≥ 40 %	WHO 5 th manual
Progressive (PR)	≥ 32 %	WHO 5 th manual
Non-progressive (NP)	-	-
Immotile (IM)	-	-
Normal Forms (morphology)	$\geq 4\%$	WHO 5 th manual
Motile Sperm Concentration (MSC)	≥ 6 M/ml	MES
Progressively Motile Sperm Concentration (PMSC)	≥ 5 M/ml	MES
Functional Sperm Concentration (FSC)	-	-
Velocity (Average path velocity – VAP)	≥ 5 mic./sec.	MES
Sperm Motility Index (SMI)	≥ 80	MES
Sperm #	≥ 39 M	WHO 5 th manual
Motile Sperm	≥ 16 M	MES
Progressively Motile Sperm	≥ 12 M	MES
Functional Sperm	-	-
Morphologically Normal Sperm	≥ 2 M	MES

Getting Started



SQA-Vision
VERSION 4.0.92



USER NAME

PASSWORD

CANCEL

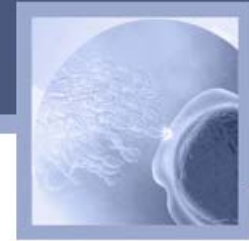
ENTER

Remember, it All Started with a Sperm!

COPYRIGHT 2013



Home Screen



SQA-Vision
version 4.3a.13



TEST PATIENT

QC / PROFICIENCY

VISUALIZATION

ARCHIVE

SERVICE

SETTINGS

SERVICE DATA - KEY PARAMETERS

REFERENCE 1 (mV):	215	✓
LED CURRENT 1 (mA):	8	✓
REFERENCE 2 (mV):	2915	✓
LED CURRENT 2 (mA):	15	✓
ZERO LEVEL:	512	✓

SELF-TEST STATUS:	✓
CALIBRATION AND STABILIZATION:	✓

CLICK ICON(S) FOR DETAILS

CONTROLS - LATEX BEADS DATA

LAST RUN:	07/31/2013	
LEVEL 1:	46.0 (M/ml)	✓
LEVEL 2:	PENDING	
NEG. CONTROL:	1.2 (M/ml)	✗

I-BUTTON / TEST STATS

TESTS REMAINING:	5	!
AVG. TESTS / DAY:	2	
TOTAL TESTS RAN:	9	

SQA-VISION BACKUP STATUS

LAST BACKUP:	07/31/2013	
NEXT BACKUP:	08/07/2013	✓
HDD SPACE USED:	43.9%	✓

REPORT

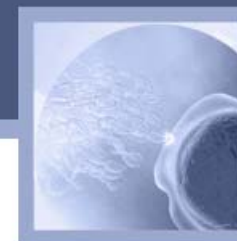
MAINTENANCE

REFRESH



07/31/2013 11:06

Service Screen



SQA-Vision
version 4.3d.34



TEST PATIENT

QC / PROFICIENCY

VISUALIZATION

ARCHIVE

SERVICE

SETTINGS



07/31/2013 11:06

DAILY MAINTENANCE CHECKLIST

LAST PERFORMED: 07/23/2013 09:30 by Lab worker

VERIFY SUPPLY INVENTORY	<input type="checkbox"/>
CLEAN TESTING CHAMBER (BLUE DOT BRUSH)	<input type="checkbox"/>
DRY TESTING CHAMBER (FOAM BRUSH)	<input type="checkbox"/>
DUST TESTING CHAMBER (WOODEN BRUSH)	<input type="checkbox"/>
CONFIRM SYSTEM PASSES SELF-TEST	<input type="checkbox"/>
RUN DAILY QC (AS NECESSARY)	<input type="checkbox"/>
RUN WBC/PH STRIP QC (AS NECESSARY)	<input type="checkbox"/>
VERIFY DATE AND TIME	<input type="checkbox"/>

PERFORMED BY:

CALENDAR

REPORT

SAVE

SQA-VISION BACKUP STATUS

LAST BACKUP:	07/29/2013	
NEXT BACKUP:	08/29/2013	✓
HDD SPACE USED:	5.6%	✓

SETTINGS

RESTORE

BACKUP

SERVICE DATA - KEY PARAMETERS

REFERENCE 1 (mV):	215	✓
LED CURRENT 1 (mA):	8	✓
REFERENCE 2 (mV):	2915	✓
LED CURRENT 2 (mA):	15	✓
ZERO LEVEL:	534	✗
SELF-TEST STATUS:		✗

REFRESH

SERVICE
REPORT

SETTINGS
REPORT

ANALYSIS

SELF-TEST

CLICK ICON(S) FOR DETAILS

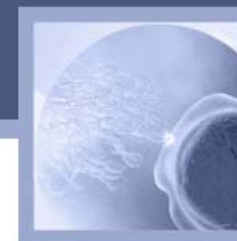
CONTROLS - LATEX BEADS DATA

LAST RUN:	07/29/2013
LEVEL 1:	PENDING
LEVEL 2:	PENDING
NEG. CONTROL:	0.0 (M/ml) ✓

I-BUTTON / TEST STATS

TESTS REMAINING:	5	!
AVG. TESTS / DAY:	2	
TOTAL TESTS RUN:	9	

Setting Controls



SQA-Vision
version 4.3.2.3-4

TEST PATIENT

CONTROLS

PROFICIENCY

TEST PATIENT

VISUALIZATION

SYSTEM

QWIKLINK

QC / PROFICIENCY

VISUALIZATION

ARCHIVE

SERVICE

SETTINGS

☒ **LATEX BEADS SETUP:**

QC: LATEX BEADS - LEVEL 1
LOT #:
EXP. DATE: 07/31/2013
TARGET (M/ml):
RANGE (+/-):
 GRAPH COLOR **CLEAR**

QC: LATEX BEADS - LEVEL 2
LOT #:
EXP. DATE: 07/31/2013
TARGET (M/ml):
RANGE (+/-):
 GRAPH COLOR **CLEAR**

QC: LATEX BEADS - NEG. CONTROL
LOT #:
EXP. DATE: 07/31/2013
TARGETS (M/ml): 0.0
RANGES (+/-): 0.0
 CONC. GRAPH COLOR MSC GRAPH COLOR **CLEAR**

☐ **STABILIZED SPERM SETUP:**

QC: STABILIZED SPERM - LEVEL 1
LOT #:
EXP. DATE: 07/31/2013
TARGET (M/ml):
RANGE (+/-):
 GRAPH COLOR **CLEAR**

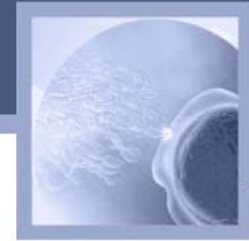
QC: STABILIZED SPERM - LEVEL 2
LOT #:
EXP. DATE: 07/31/2013
TARGET (M/ml):
RANGE (+/-):
 GRAPH COLOR **CLEAR**

QC: STABILIZED SPERM - LEVEL 3
LOT #:
EXP. DATE: 07/31/2013
TARGET (M/ml):
RANGE (+/-):
 GRAPH COLOR **CLEAR**

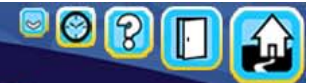
CLEAR ALL **REPORT** **SAVE**

07/31/2013 11:06

Proficiency Settings



SQA-Vision
version 3.1.1.14



TEST PATIENT

CONTROLS

PROFICIENCY

TEST PATIENT

VISUALIZATION

SYSTEM

QWIKLINK

QC / PROFICIENCY

VISUALIZATION


ARCHIVE

SERVICE

SETTINGS

PROFICIENCY # 1

SAMPLE ID:


ISSUE DATE: 07/31/2013 

NOTE:

CLEAR

PROFICIENCY # 2

SAMPLE ID:


ISSUE DATE: 07/31/2013 

NOTE:

CLEAR

PROFICIENCY # 3

SAMPLE ID:


ISSUE DATE: 07/31/2013 

NOTE:

CLEAR

PROFICIENCY # 4

SAMPLE ID:

ISSUE DATE: 07/31/2013 

NOTE:

CLEAR

STANDARD: ☒ CAP ☐ NEQAS



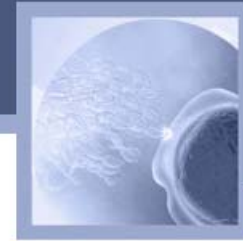
07/31/2013 11:06

CLEAR ALL

REPORT

SAVE

Test Patient Settings



SQA-Vision
version 4.3.2.34



TEST PATIENT

CONTROLS

PROFICIENCY

TEST PATIENT

VISUALIZATION

SYSTEM

QWIKLINK

QC / PROFICIENCY

VISUALIZATION

ARCHIVE

SERVICE

SETTINGS

CONC. STANDARD

CONC. STANDARD 1

CONC. STANDARD 2

PATIENT DATA ENTRY - OPTIONAL FIELDS

OPTIONAL INPUT 1:

OPTIONAL INPUT 2:

MANUAL DATA ENTRY - OPTIONAL FIELDS

OPTIONAL INPUT 1:

OPTIONAL INPUT 2:

OPTIONAL INPUT 3:

OPTIONAL INPUT 4:

TESTING CRITERIA

WHO 3RD EDITION

WHO 4TH EDITION

WHO 5TH EDITION

DEFAULT TEST TYPE

FRESH

POST VASECTOMY

WASHED

SWIM UP

GRADIENT

FROZEN

LONGEVITY

MANUAL

NO DEFAULT

LES

US

ROW

LOW QUALITY COUNTER

DEBRIS SCAN CUTOFF

CONC. <15 Mml OR MOTILITY <40%

SCAN FOR DEBRIS ON ALL SAMPLES

NO DEBRIS SCANNING

LONGEVITY INTERVAL NAME / INTERVAL TIME (MIN)

INITIAL:

0

STEP 2:

80

STEP 3:

120

STEP 4:

180

FACILITY NAME:

ADDRESS:

PHONE:

FAX:

E-MAIL:

WEB:

LOGO:

optimal image size
399 x 187

UPLOAD



PARAMETER	UNITS	RANGE TYPE	REF. VALUE
<input checked="" type="checkbox"/> SAMPLE ID		(none)	
<input checked="" type="checkbox"/> COLLECTED DATE / TIME		(none)	
<input checked="" type="checkbox"/> RECEIVED DATE / TIME		(none)	
<input checked="" type="checkbox"/> TEST DATE / TIME		(none)	
<input checked="" type="checkbox"/> SAMPLE TESTED		(none)	
<input checked="" type="checkbox"/> ABSTINENCE	days	(none)	
<input checked="" type="checkbox"/> APPEARANCE		(none)	
<input checked="" type="checkbox"/> VISCOSITY		(none)	
<input checked="" type="checkbox"/> LIQUEFACTION		(none)	
<input checked="" type="checkbox"/> pH		(none)	
<input checked="" type="checkbox"/> WBC CONC.	Mml	(none)	
<input checked="" type="checkbox"/> DEBRIS / ROUND CELLS		(none)	
<input checked="" type="checkbox"/> VOLUME	ml	(none)	

SELECT ALL

CLEAR ALL

DEFAULTS

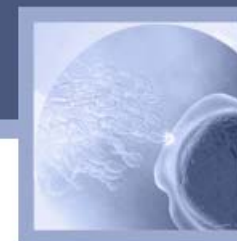
REPORT

SAVE



07/31/2013 11:06

Visualization Settings



SQA-Vision
version 4.0.0.1

TEST PATIENT

CONTROLS

PROFICIENCY

TEST PATIENT

VISUALIZATION

SYSTEM

QWIKLINK

QC / PROFICIENCY

VISUALIZATION

ARCHIVE

SERVICE

SETTINGS

07/31/2013 11:06

REFRESH

GRID ON

FREEZE

FULL SCREEN

SETTINGS

VITALITY SETTINGS

F1

LIVE

F2

DEAD

COUNT TYPE

CLICK COUNT (KEY)

☒

MARK COUNT (CIRCLE)

☐

GRID SIZE/COLOR

COLOR:

PIXEL SIZE:

EXAMPLE

CIRCLE SIZE

RADIUS:

PIXEL SIZE:

EXAMPLE

VIDEO SETTINGS

COMPRESSION:

DivX MPEG-4 Video Codec

DEVICE:

ICube

VIDEO INPUT:

VIDEO SUBTYPE:

default

VIDEO STANDARD:

ADDITIONAL:

ADVANCED SETTINGS

MORPHOLOGY SETTINGS

CRITERIA: WHO 5TH

TEST TYPE

NORMAL / ABNORMAL

☒

FULL DIFFERENTIAL

☐

COUNT TYPE

CLICK COUNT (KEY)

☒

MARK COUNT (CIRCLE)

☐

F1

NORMAL

F2

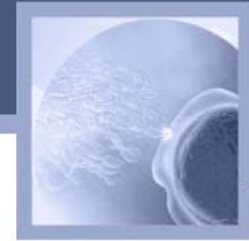
ABNORMAL

DEFAULTS

REPORT

SAVE

System Settings



SQA-Vision
Version 4.3.0.24

TEST PATIENT**CONTROLS****PROFICIENCY****TEST PATIENT****VISUALIZATION****SYSTEM****QWIKLINK**

TEST PATIENT**QC / PROFICIENCY****VISUALIZATION****ARCHIVE****SERVICE****SETTINGS**

BACKUP FREQUENCY
BACKUP EVERY DAY(S)
BACKUP PATH **BROWSE**

USER AND PASSWORD SETUP
USER NAME
PASSWORD
CONFIRM PASSWORD

QC FREQUENCY
TEST EVERY DAY(S)

SERVICE DATA
LOAD SERVICE DATA ON STARTUP ☐

MAINTENANCE ACTIVITIES

VERIFY SUPPLY INVENTORY
CLEAN TESTING CHAMBER (BLUE DOT BRUSH)
DRY TESTING CHAMBER (FOAM BRUSH)
DUST TESTING CHAMBER (WOODEN BRUSH)
CONFIRM SYSTEM PASSES SELF-TEST
RUN DAILY QC (AS NECESSARY)
RUN WBC/PH STRIP QC (AS NECESSARY)
VERIFY DATE AND TIME

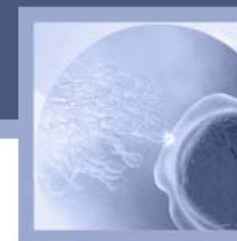
LANGUAGE FILE UPLOAD
 ▼

SOUND TYPE
 ▼

07/31/2013 11:06

DEFAULTS**REPORT****SAVE**

QwikLink Settings



SQA-Vision
version 4.36.34

TEST PATIENT

CONTROLS

PROFICIENCY

TEST PATIENT

VISUALIZATION

SYSTEM

QWIKLINK

QC / PROFICIENCY

VISUALIZATION

ARCHIVE

SERVICE

SETTINGS

SELECT DATE RANGE

07/31/2013



TO

07/31/2013



SEND DATA

<input checked="" type="checkbox"/>	FIELD NAME	FORMAT	DESCRIPTION
<input checked="" type="checkbox"/>	MESSQALISV2.0		Header
<input checked="" type="checkbox"/>	Fields count	0	# Fields in 1 record transferred to LIS
<input checked="" type="checkbox"/>	TF_Name	String	Testing Facility name
<input checked="" type="checkbox"/>	Address	String	Testing Facility address
<input checked="" type="checkbox"/>	City	String	Testing Facility city
<input checked="" type="checkbox"/>	State	String	Testing Facility state
<input checked="" type="checkbox"/>	ZIP	String	Testing Facility ZIP
<input checked="" type="checkbox"/>	Phone	String	Testing Facility phone
<input checked="" type="checkbox"/>	Fax	String	Testing Facility fax
<input checked="" type="checkbox"/>	PatientID	String	Number identifying the patient

SELECT COM PORT

COM 1

COMMUNICATION SETUP

baud=19200 parity=N data=8 stop=1

- ☒ ENABLE ADVANCED LOG FILE
- ☒ DO NOT SEND HEADER
- ☒ REMEMBER LAST FRAME NUMBER



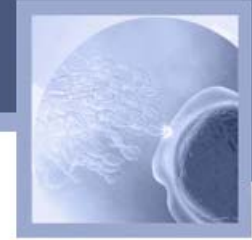
07/31/2013 11:06

DEFAULTS

REPORT

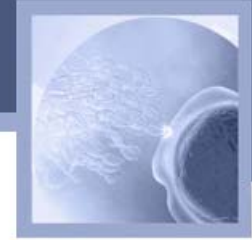
SAVE

Test Patient: Select Sample/Test Type



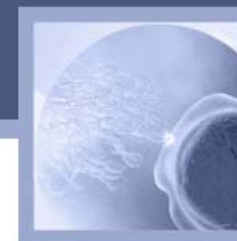
- **FRESH** – Not enriched, diluted or treated. Collected within 1 hour of testing. Required “neat” sample testing volume: ≥ 0.5 ml. Option to dilute 1:2 [1+1] with QwikCheck™ Dilution Media if less sample available. All semen parameters will be reported. A “neat” 20 μ l sample can run in the thin section of the capillary - Only MSC, PMSC, SMI and VELOCITY reported.
- **POSTVASECTOMY (POST VAS)** – Fresh post vas sample tested within 1 hour of collection. Motile, Immotile and Total Sperm in M/ml and per ejaculate volume reported. Testing volume required ≥ 0.5 ml.
- **WASHED** – Enriched or prepared for artificial insemination (AI) by centrifugation using a commercial media to replace the seminal plasma. Frozen samples containing egg yolk buffer are excluded from this mode. Testing volume required ≥ 0.5 ml or less (please see the comments for Fresh semen).
- **SWIM-UP** – Prepared for AI using “swim-up” procedure. Only motility-related parameters will be reported (MSC, PMSC, SMI and VELOCITY). Testing volume required ≥ 20 μ l.

Test Patient: Select Sample/Test Type



- **DENSITY GRADIENT (GRADIENT)** – Prepared for artificial insemination using a density gradient enrichment procedure. Only motility-related parameters will be reported (MSC, PMSC, SMI and VELOCITY). Testing volume required $\geq 20 \mu\text{l}$.
- **FROZEN** – Frozen and recently thawed. Only motility-related parameters reported (MSC, PMSC, SMI and VELOCITY) to quantify the impact of the freezing/thawing process on motility. Testing volume required $\geq 20 \mu\text{l}$.
- **LONGEVITY** – Fresh samples tested over a predetermined time sequence assess sample stability over time. Testing volume required $\geq 0.5 \text{ ml}$. Uses 1 testing capillary/each sequential test.
- **MANUAL** – Any sample tested manually using the visualization compartment. Testing volume: $\sim 3 \mu\text{l}$ is for each fixed coverslip chamber.

Test Patient: Data Entry Screen



SQA-Vision
version 4.0.2.04



TEST PATIENT

FRESH

POST VAS

WASHED

SWIM UP

GRADIENT

FROZEN

LONGEVITY

MANUAL

QC / PROFICIENCY

PATIENT ID: 2345678901

FIRST NAME: John

LAST NAME: Johnson

SAMPLE ID: 1234567890

BIRTH DATE: 07/31/2013

ABSTINENCE (days): 3

VISUALIZATION

COLLECTED DATE: 07/31/2013

COLLECTED TIME: 07:05

RECEIVED DATE: 07/31/2013

RECEIVED TIME: 08:05

ARCHIVE

VOLUME (ml): 3.50

WBC CONC. (M/ml): < 1

pH: 7.5

SERVICE

APPEARANCE: NORMAL

VISCOSITY: NORMAL

LIQUEFACTION: NORMAL

SETTINGS

OPTIONAL 1:

OPTIONAL 2:

COMMENTS:



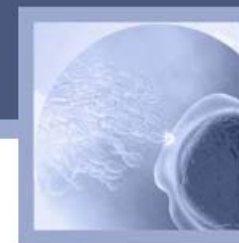
07/31/2013 08:26

1+1 DILUTION

20 MICRO

TEST NOW

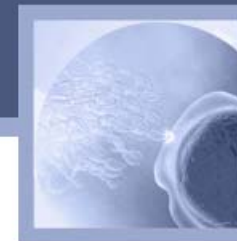
Test Patient: Data Entry



- **PATIENT ID** – Unique patient ID/number (Maximum of 20 characters).
- **FIRST NAME** – First name identifying the patient.
- **LAST NAME** – Last name identifying the patient.
- **SAMPLE ID** - Unique sample ID/number (Maximum of 20 characters).
- **BIRTH DATE** – Birth date of the patient.
- **ABSTINENCE** - Number of days since the patient's last ejaculation.
- **DATE/TIME COLLECTED** – Date and time the sample was collected.
- **DATE/TIME RECEIVED** – Date and time the sample was received.
- **VOLUME** – Volume of the **whole** ejaculate (Fresh, Post Vas and Longevity test) or sample (the other types of tests) in milliliters.
- **WBC CONC.** – <1 M/ml (normal) OR ≥ 1 M/ml (abnormal) leukocytes (required entry).
- **PH** – pH of the semen sample (QwickCheck™ Test Strips recommended).
- **APPEARANCE** – Normal/Abnormal visual assessment of the specimen.
- **VISCOSITY** – Normal/Abnormal (WHO 5th: NORMAL = semen leaves pipette in small discrete drops or forming a thread <2 cm long).
- **LIQUEFACTION** – Normal/Abnormal (WHO 5th: NORMAL = within 60 minutes of collection @ room temperature).
- **COMMENTS** – Enter comments if required.
- **OPTIONAL** – Enter optional fields if necessary.



Test Patient: Sample Preparation



**SYSTEM IS CALIBRATING
DO NOT INSERT CAPILLARY
(FRESH SAMPLE)**

1. MIX THE SEMEN SAMPLE THOROUGHLY
2. FILL CAPILLARY WITH SEMEN SAMPLE
3. CLEAN, WIPE AND INSPECT CAPILLARY FOR BUBBLES



**SYSTEM IS CALIBRATING
DO NOT INSERT CAPILLARY
(FRESH SAMPLE)**

1. MIX THE SEMEN SAMPLE THOROUGHLY
2. DILUTE SAMPLE (1+1)
3. FILL CAPILLARY WITH SEMEN SAMPLE
4. CLEAN, WIPE AND INSPECT CAPILLARY FOR BUBBLES



**SYSTEM IS CALIBRATING
DO NOT INSERT CAPILLARY
(FRESH SAMPLE)**

1. MIX THE SEMEN SAMPLE THOROUGHLY
2. FILL CAPILLARY TIP WITH 20 µl SEMEN SAMPLE
3. REMOVE SEPARATOR VALVE
4. CLEAN, WIPE AND INSPECT CAPILLARY FOR BUBBLES

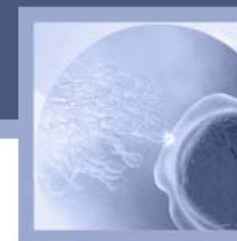
PLEASE INSERT TESTING CAPILLARY

(FRESH SAMPLE)

1. MIX THE SEMEN SAMPLE THOROUGHLY
2. FILL CAPILLARY WITH SEMEN SAMPLE
3. CLEAN, WIPE AND INSPECT CAPILLARY FOR BUBBLES

PRESS ESC ON SQA-VISION TO CANCEL TESTING

Test Results



SQA-Vision
version 4.3.2.34



TEST PATIENT

QC / PROFICIENCY

VISUALIZATION

ARCHIVE

SERVICE

SETTINGS



07/31/2013 11:06

PATIENT ID: 2345678901 | PATIENT NAME: John Johnson | BIRTH DATE / AGE: 07/31/1970 43

PARAMETER	RESULT	REF. VALUE	STATUS
CONCENTRATION (M/ml):	78.7	>=20	PASS
MOTILITY (%):	49.1		
RAPID PROGRESSIVE a (%):	11.9		
SLOW PROGRESSIVE b (%):	24.6		
NON-PROGRESSIVE c (%):	12.6		
IMMOTILITY (%):	50.9		
NORMAL FORMS (Auto, %):	35.0	>= 30	PASS
MOTILE SPERM CONC. (M/ml):	38.6		
PROG. MOTILE SPERM CONC. a (M/ml):	9.4		
PROG. MOTILE SPERM CONC. b (M/ml):	19.3		
FUNCTIONAL SPERM CONC. (M/ml):	16.4		
VELOCITY (mic/sec):	34	>= 5	PASS
SPERM MOTILITY INDEX:	109	>= 80	PASS
SPERM # (M/ejac):	550.9	>= 40	PASS
MOTILE SPERM (M/ejac):	270.4		
PROG. MOTILE SPERM (M/ejac):	201.1	>= 20	PASS
FUNCTIONAL SPERM (M/ejac):	114.5		
MORPH. NORMAL SPERM (M/ejac):	193.1		
VOLUME (ml):	7.00		
AGGLUTINATION (1-4, A-E):	1		
pH:	7.9		

SAMPLE INFORMATION

TEST TYPE: FRESH
SAMPLE ID: 1234567890
COLLECTED DATE / TIME: 07/31/2013 10:35
RECEIVED DATE / TIME: 07/31/2013 10:47
TEST DATE / TIME: 07/31/2013 11:01
CRITERIA: WHO 3RD
SAMPLE TESTED: NORMAL VOLUME
ABSTINENCE (days): 8
APPEARANCE: NORMAL
VISCOSITY: NORMAL
LIQUEFACTION: NORMAL
OPTIONAL 1: Optional 1
OPTIONAL 2: Optional 2

COMMENTS:

DEBRIS

MORPH.

VITALITY

CAPTURE

GRAPHS

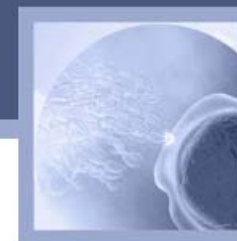
ADDITIONAL

RETEST

REPORT

SAVE

Test Report



Page 1 of 2

SEMEN ANALYSIS TEST REPORT

PATIENT INFORMATION

PATIENT ID: 2345678901
FIRST NAME: John
LAST NAME: Johnson
BIRTH DATE / AGE: 07/31/1970 43

FACILITY INFORMATION

5757 W. Century Blvd. Suite 805
Los Angeles, CA. 90045

CONTACT INFORMATION

PHONE: 866-557-9064
FAX: 310-670-9069
E-MAIL: service@mes-llc.com
WEB: www.mes-global.com



SAMPLE INFORMATION

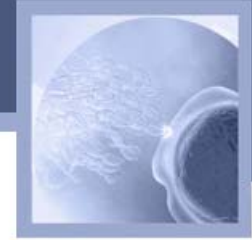
TEST TYPE:	FRESH	APPEARANCE:	NORMAL
SAMPLE ID:	1234567890	VISCOSITY:	NORMAL
COLLECTED DATE / TIME:	07/31/2013 10:35	LIQUEFACTION:	NORMAL
RECEIVED DATE / TIME:	07/31/2013 10:47	OPTIONAL 1:	Optional 1
TEST DATE / TIME:	07/31/2013 11:01	OPTIONAL 2:	Optional 2
CRITERIA:	WHO 3RD	IMAGES CAPTURED:	TOTAL: 3
SAMPLE TESTED:	NORMAL VOLUME	VIDEOS CAPTURED:	TOTAL: 4
ABSTINENCE (days):	8		

PARAMETER	RESULT	REF. VALUE	STATUS
CONCENTRATION (M/ml):	78.7	>= 20	PASS
MOTILITY (%):	49.1		
RAPID PROGRESSIVE a (%):	11.9		
SLOW PROGRESSIVE b (%):	24.6		
NON-PROGRESSIVE c (%):	12.6		
IMMOTILITY (%):	50.9		
NORMAL FORMS (Auto, %):	35.0	>= 30	PASS
MOTILE SPERM CONC. (M/ml):	38.6		
PROG. MOTILE SPERM CONC. a (M/ml):	9.4		
PROG. MOTILE SPERM CONC. b (M/ml):	19.3		
FUNCTIONAL SPERM CONC. (M/ml):	16.4		
VELOCITY (mic/sec):	34	>= 5	PASS
SPERM MOTILITY INDEX:	109	>= 80	PASS
SPERM # (M/ejac):	550.9	>= 40	PASS
MOTILE SPERM (M/ejac):	270.4		
PROG. MOTILE SPERM (M/ejac):	201.1	>= 20	PASS
FUNCTIONAL SPERM (M/ejac):	114.5		
MORPH. NORMAL SPERM (M/ejac):	193.1		
VOLUME (ml):	7.00		
AGGLUTINATION (1-4, A-E):	1		
pH:	7.4		
WBC CONC. (M/ml):	< 1		

COMMENTS:



Low Quality Counter: Sample Preparation

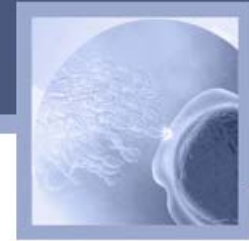


LOW QUALITY COUNTER

- MIX THE SEMEN SAMPLE THOROUGHLY
- PREPARE SLIDE AND INSERT INTO VISUALIZATION SLOT
- PRESS FULL ZOOM OUT AND ADJUST FOCUS
- ENTER THE SPERM COUNTS INTO THE APPROPRIATE FIELDS PROVIDED
- CHANGE THE FIELD OF VIEW AND REPEAT

☐ DO NOT SHOW THIS MESSAGE AGAIN

Low Quality Counter



SQA-Vision
version 4.3.2.34



TEST PATIENT

QC / PROFICIENCY

VISUALIZATION

ARCHIVE

SERVICE

SETTINGS



07/31/2013 11:06



REFRESH

GRID ON

FULL SCREEN

FREEZE

SETTINGS

LOW QUALITY COUNTER

ZOOM OUT TO VISUALIZE

PATIENT ID: 1234567890

BIRTH DATE / AGE: 07/31/1970 43

PATIENT NAME: J. Johnson

TEST TYPE: FRESH

SAMPLE ID: 1234567890

CRITERIA: WHO 5TH

TEST DATE / TIME: 07/31/2013 11:00

SAMPLE TESTED: NORMAL VOLUME

MOTILE

IMMOTILE

NEXT FIELD

PROGRESSIVE

CLEAR LAST

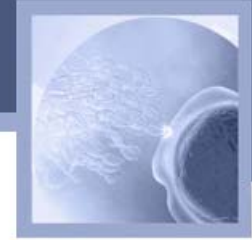
CLEAR ALL

FIELDS COUNTED: **XX** | TOTAL SPERM COUNTED: **XX**

NO SPERM SEEN: ☐

RESULTS

Scanning Debris: Sample Preparation

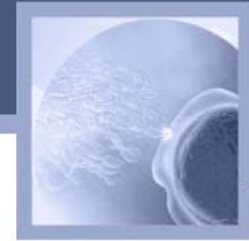


DEBRIS / ROUND CELL ASSESSMENT

- MIX THE SEMEN SAMPLE THOROUGHLY
- PREPARE SLIDE AND INSERT INTO VISUALIZATION SLOT
- PRESS FULL ZOOM OUT AND ADJUST FOCUS
- ASSESS DEBRIS / ROUND CELLS IN SEVERAL FIELDS OF VIEW
- SELECT THE LEVEL OF DEBRIS / ROUND CELLS

☐ DO NOT SHOW THIS MESSAGE AGAIN

Scanning Debris / Round Cells



SQA-Vision
version 4.3.2.4



TEST PATIENT

QC / PROFICIENCY

VISUALIZATION

ARCHIVE

SERVICE

SETTINGS



07/31/2013 11:06



REFRESH

GRID ON

FULL SCREEN

FREEZE

SETTINGS

DEBRIS / ROUND CELLS SCANNER

ZOOM OUT TO VISUALIZE

PATIENT ID: 1234567890

BIRTH DATE / AGE: 07/31/1970 43

PATIENT NAME: J. Johnson

TEST TYPE: FRESH

SAMPLE ID: 1234567890

CRITERIA: WHO 3RD

TEST DATE / TIME: 07/31/2013 11:18

SAMPLE TESTED: NORMAL VOLUME

NONE / FEW
0-10%

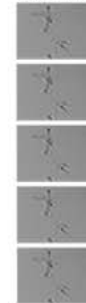
MODERATE
11-30%

MANY
30+%

EXAMPLES



EXAMPLES



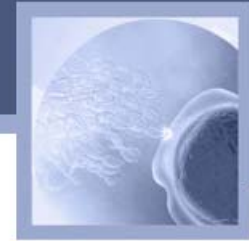
EXAMPLES



NO SPERM SEEN: ☐

CONTINUE

Longevity



SQA-Vision
version 4.3.0.34

TEST PATIENT

FRESH **POST VAS** **WASHED** **SWIM UP** **GRADIENT** **FROZEN** **LONGEVITY** **MANUAL**

QC / PROFICIENCY

VISUALIZATION

ARCHIVE

SERVICE

SETTINGS

PATIENT ID:

FIRST NAME:

LAST NAME:

SAMPLE ID:

BIRTH DATE:

ABSTINENCE (days):

COLLECTED DATE:

COLLECTED TIME:

RECEIVED DATE:

RECEIVED TIME:

VOLUME (ml):

WBC CONC. (M/ml):

pH:

APPEARANCE:

VISCOSITY:

LIQUEFACTION:

OPTIONAL 1:

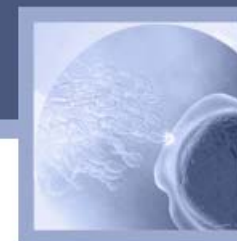
OPTIONAL 2:

COMMENTS:

LONGEVITY: **INITIAL** **STEP 2** **STEP 3** **STEP 4** **TEST NOW**

07/31/2013 08:26

Longevity Test Results



SQA-Vision
version 4.36.24



TEST PATIENT

QC / PROFICIENCY

VISUALIZATION

ARCHIVE

SERVICE

SETTINGS



07/31/2013 15:06

PATIENT ID: 2345678901 | PATIENT NAME: John Johnson | BIRTH DATE / AGE: 07/31/1970 43

PARAMETER	RESULT: INITIAL	STEP 2	STEP 3	STEP 4	REF. VALUE	STATUS
STEP TIME:	11:02	11:33	12:03	12:34		
CONCENTRATION (M/ml):	57.8	57.8	57.8	57.8	>=20	PASS
MOTILITY (%):	32.6	33.8	36.8	36.6		
RAPID PROGRESSIVE a (%):	2.2	2.3	5.1	2.2		
SLOW PROGRESSIVE b (%):	22.5	24.3	25.2	25.8		
NON-PROGRESSIVE c (%):	7.9	7.2	6.5	8.6		
IMMOTILITY d (%):	67.4	66.2	63.2	63.4		
VITALITY (LIVE, %):	60.9	N/A	N/A	N/A		
NORMAL FORMS (Manual, %):	61.2	61.2	61.2	61.2	>=30	PASS
HEAD DEFECTS (%):	7.5	7.5	7.5	7.5		
NECK AND MIDPIECE DEFECTS (%):	7.5	7.5	7.5	7.5		
TAIL DEFECTS (%):	9.7	9.7	9.7	9.7		
CYTOPLASMIC DROPLETS (%):	7.5	7.5	7.5	7.5		
OTHER (%):	6.7	6.7	6.7	6.7		
PINHEAD (%):	12.4	12.4	12.4	12.4		
MOTILE SPERM CONC. (M/ml):	18.8	19.6	21.3	21.2		
PROG. MOTILE SPERM CONC. a (M/ml):	1.3	1.3	3.0	1.3		
PROG. MOTILE SPERM CONC. b (M/ml):	13.0	14.0	14.6	14.9		
FUNCTIONAL SPERM CONC. (M/ml):	11.6	12.4	14.2	13.1		
VELOCITY (mic/sec):	27	28	31	27	>=5	PASS
SPERM MOTILITY INDEX:	62	69	86	68	>=80	FAIL

SAMPLE INFORMATION

TEST TYPE: LONGEVITY
SAMPLE ID: 1234567890
COLLECTED DATE / TIME: 07/31/2013 10:30
RECEIVED DATE / TIME: 07/31/2013 10:47
TEST DATE / TIME: 07/31/2013 11:01
CRITERIA: WHO 3RD
SAMPLE TESTED: NORMAL VOLUME
ABSTINENCE (days): 8
APPEARANCE: NORMAL
VISCOSITY: NORMAL
LIQUEFACTION: NORMAL
OPTIONAL 1: Optional 1
OPTIONAL 2: Optional 2

COMMENTS:

DEBRIS

MORPH.

VITALITY

CAPTURE

GRAPHS

ADDITIONAL

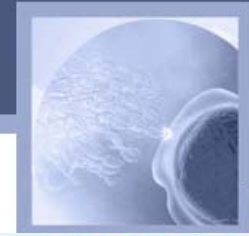
RETEST

END TEST

REPORT

SAVE

Postvasectomy Data Entry Screen



SQA-Vision
version 4.06.04

Icons: Mail, Clock, Help, Door, Home

TEST PATIENT **FRESH** **POST VAS** **WASHED** **SWIM UP** **GRADIENT** **FROZEN** **LONGEVITY** **MANUAL**

QC / PROFICIENCY

VISUALIZATION

ARCHIVE

SERVICE

SETTINGS

PATIENT ID: 2345678901 FIRST NAME: John LAST NAME: Johnson

SAMPLE ID: 1234567890 BIRTH DATE: 07/31/2013 ABSTINENCE (days): 3

COLLECTED DATE: 07/31/2013 COLLECTED TIME: 07:05 RECEIVED DATE: 07/31/2013 RECEIVED TIME: 08:05


VOLUME (ml): 3.50 WBC CONC. (M/ml): < 1 pH: 7.5

APPEARANCE: NORMAL VISCOSITY: NORMAL LIQUEFACTION: NORMAL

OPTIONAL 1: OPTIONAL 2:

COMMENTS:

RAW SAMPLE **CENTRIFUGED** INITIAL VOL.(ml): FINAL VOL.(ml): **SEMI-AUTO** **MANUAL**

 07/31/2013 08:26

Postvasectomy Counter: Sample Preparation

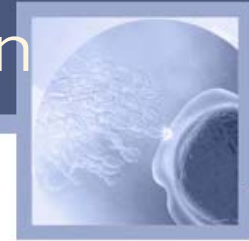


POST VASECTOMY COUNTER

- MIX THE SEMEN SAMPLE THOROUGHLY
- PREPARE SLIDE AND INSERT INTO VISUALIZATION SLOT
- PRESS FULL ZOOM OUT AND ADJUST FOCUS
- ENTER THE SPERM COUNTS INTO THE APPROPRIATE FIELDS PROVIDED
- CHANGE THE FIELD OF VIEW AND REPEAT

☐ DO NOT SHOW THIS MESSAGE AGAIN

Postvasectomy Counter: Sample Preparation



SQA-Vision
version 4.12.34

TEST PATIENT

QC / PROFICIENCY

VISUALIZATION

ARCHIVE

SERVICE

SETTINGS

07/31/2013 11:06

A large, central microscopic image showing numerous sperm cells with long tails, used for counting and analysis.

REFRESH

GRID ON

FULL SCREEN

FREEZE

SETTINGS

POST VASECTOMY COUNTER
ZOOM OUT TO VISUALIZE

PATIENT ID: 2345678901 BIRTH DATE / AGE: 07/31/1970 43
PATIENT NAME: J. Smith TEST TYPE: POST VASECTOMY
SAMPLE ID: 1234567890 OPTIONS: SEMI-AUTO / RAW
TEST DATE / TIME: 07/31/2013 11:00 CRITERIA: WHO 3RD

MOTILE SPERM DETECTED AUTOMATICALLY: 7

MOTILE

IMMOTILE

NEXT FIELD

CAPTURE IMAGE

CAPTURE VIDEO

CLEAR LAST

CLEAR ALL

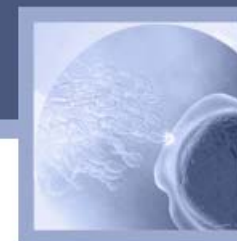
RAW SAMPLE (NON-CENTRIFUGED)

FIELDS COUNTED: | TOTAL SPERM COUNTED:
IMAGES CAPTURED: | VIDEOS CAPTURED:

NO SPERM SEEN: ☐

RESULTS

Postvasectomy Results



SQA-Vision
version 4.0.0.0



TEST PATIENT

QC / PROFICIENCY

VISUALIZATION

ARCHIVE

SERVICE

SETTINGS

PATIENT ID: 2345678901 | PATIENT NAME: John Smith | BIRTH DATE / AGE: 07/31/1970 43

PARAMETER	RESULT
MOTILE SPERM (M/ml):	1.45
IMMOTILE SPERM (M/ml):	0.97
TOTAL SPERM (M/ml):	2.41
# MOTILE SPERM / VOL. (M):	10.14
# IMMOTILE SPERM / VOL. (M):	6.76
# TOTAL SPERM / VOL. (M):	16.89
VOLUME (ml):	7.00
AGGLUTINATION (1-4, A-E):	1
pH:	7.5
WBC CONC. (M/ml):	>= 1

SAMPLE INFORMATION

TEST TYPE: POST VASECTOMY
SAMPLE ID: 1234567890
COLLECTED DATE / TIME: 07/31/2013 07:00
RECEIVED DATE / TIME: 07/31/2013 07:45
TEST DATE / TIME: 07/31/2013 08:01
CRITERIA: WHO 3RD
OPTIONS: MANUAL / CENTRIF.
ABSTINENCE (days): 15
APPEARANCE: NORMAL
VISCOSITY: NORMAL
LIQUEFACTION: NORMAL
OPTIONAL 1: Optional 1
OPTIONAL 2: Optional 2

COMMENTS:



07/31/2013 11:06

DEBRIS

MORPH.

VITALITY

CAPTURE

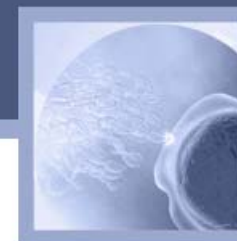
GRAPHS

ADDITIONAL

REPORT

SAVE

Running Controls



SQA-Vision
Version 4.02.04



TEST PATIENT

LATEX BEADS

STAB. SPERM

PROFICIENCY

QC / PROFICIENCY

VISUALIZATION

ARCHIVE

SERVICE

SETTINGS

LEVEL 1

TEST NOW

TEST RESULTS
CONC. (M/ml): 44.5
STATUS: **PASS**

SAMPLE INFORMATION
LOT #: 0123456789
EXP. DATE: **07/13**
TARGET (M/ml): 46.0
RANGE (+/-): 3.5
PASS RANGE: 42.5 - 49.5

LAST RUN: 01/01/2013 12:21

LEVEL 2

TEST NOW

TEST RESULTS
CONC. (M/ml): 44.5
STATUS: **FAIL**

SAMPLE INFORMATION
LOT #: 1234567890
EXP. DATE: **07/13**
TARGET (M/ml): 24.0
RANGE (+/-): 3.0
PASS RANGE: 21.0 - 27.0

LAST RUN: 01/01/2013 12:21

**CORRECTIVE
ACTION**

NEGATIVE CONTROL

TEST NOW

TEST RESULTS
CONC. (M/ml): PENDING
MSC (M/ml): PENDING
STATUS: PENDING

SAMPLE INFORMATION
LOT #: 2345678901
EXP. DATE: **07/13**
TARGETS (M/ml): 0.0
RANGES (+/-): 0.0
PASS RANGE: 0.0

LAST RUN: PENDING



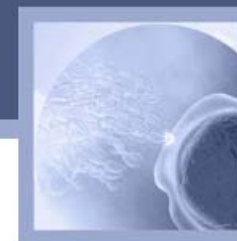
07/31/2013 11:06

SETUP






QC ARCHIVE

REPORT

Running Proficiency



SQA-Vision
version 4.3.0.14



TEST PATIENT	LATEX BEADS	STAB. SPERM	PROFICIENCY
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QC / PROFICIENCY


VISUALIZATION

ARCHIVE

SERVICE

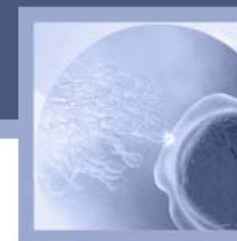
SETTINGS

PROFICIENCY # 1 TEST NOW TEST RESULTS CONC. (M/ml): 42.0 SAMPLE INFORMATION SAMPLE ID: 11223344556677889900 ISSUE DATE: 01/01/2013 NOTE: Proficiency #1 LAST RUN: 01/01/2013 09:11	PROFICIENCY # 2 TEST NOW TEST RESULTS CONC. (M/ml): 42.0 SAMPLE INFORMATION SAMPLE ID: 22334455667788990011 ISSUE DATE: 01/01/2013 NOTE: Proficiency #2 LAST RUN: 01/01/2013 09:13	PROFICIENCY # 3 TEST NOW TEST RESULTS CONC. (M/ml): 42.0 SAMPLE INFORMATION SAMPLE ID: 33445566778899001122 ISSUE DATE: 01/01/2013 NOTE: Proficiency #3 LAST RUN: 01/01/2013 09:15	PROFICIENCY # 4 TEST NOW TEST RESULTS CONC. (M/ml): 42.0 SAMPLE INFORMATION SAMPLE ID: 44556677889900112233 ISSUE DATE: 01/01/2013 NOTE: Proficiency #4 LAST RUN: 01/01/2013 09:17
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07/31/2013 11:06

SETUP **QC ARCHIVE** **REPORT**

Corrective Actions



SQA-Vision
version 4.3.0.34

TEST PATIENT

LATEX BEADS

STAB. SPERM

PROFICIENCY

QC / PROFICIENCY

VISUALIZATION

ARCHIVE

SERVICE

SETTINGS

PROBLEM DESCRIPTION	CORRECTIVE ACTION
SYSTEM REQUIRES CLEANING	CLEAN SYSTEM - RE-TEST
CONTROL MATERIAL EXPIRED	RUN NEW BATCH OF CONTROLS
SAMPLE HANDLING / MIXING	HOMOGENEOUSLY MIX - RE-TEST
TARGET VALUE / RANGE SETUP	CORRECT SETUP AND RE-TEST
CONTROL IMPROPERLY STORED	RUN NEW BATCH
WRONG LEVEL TESTED	RUN CORRECT LEVEL
NON-ASSAYED RUN AS ASSAYED CONTROL	RE-TEST AS NON-ASSAYED CONTROL
USER DEFINED	

CANCEL

SAVE

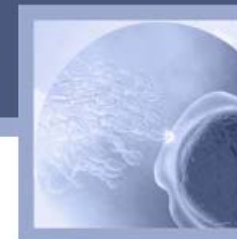
07/31/2013 11:06

SETUP

QC ARCHIVE

REPORT

QC Report



Page 1 of 1

QUALITY CONTROL REPORT – LATEX BEADS

SYSTEM INFORMATION

QC TYPE: LATEX BEADS
 DATES: 04/28/2014- 04/30/2014
 REPORT DATE / TIME: 07/31/2014 13:15

FACILITY INFORMATION

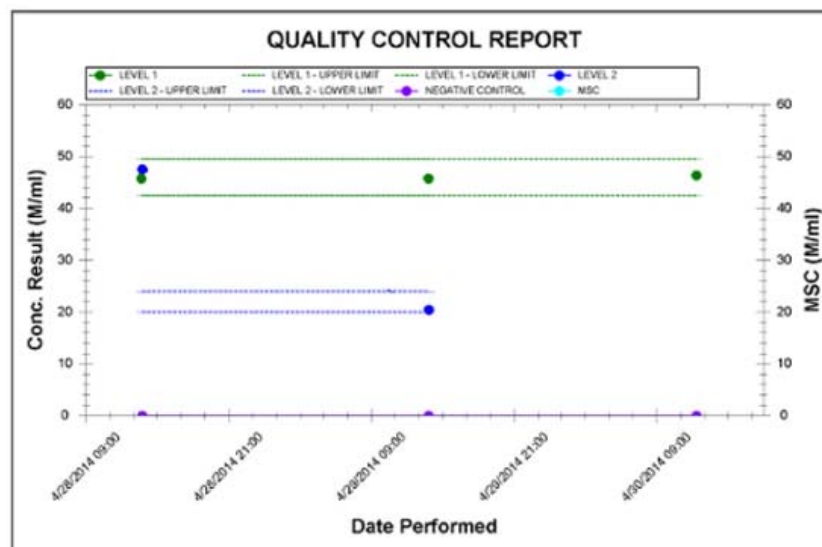
5757 W. Century Blvd., Suite 805
 Los Angeles, CA. 90045

CONTACT INFORMATION

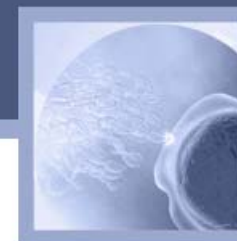
PHONE: 310-670-9066
 FAX: 310-670-9066
 E-MAIL: service@mes-llc.com
 WEB: www.mes-global.com



DATE / TIME	LEVEL	LOT #	EXP. DATE	TARGETS (M/ml)	PASS RANGES	RESULTS (M/ml)	STATUS	CORRECTIVE ACTION
04/28/2014 09:21	1	345345345	04/20/14	45.0	35.0 – 55.0	66.6	FAIL	RE-TEST AS NON-ASSAYED CONTROL
04/28/2014 09:34	2	345632456	04/20/14	22.2	19.0 – 24.4	22.2	PASS	
04/28/2014 09:55	NEG.	324523454	04/20/14	0.0 (CONC./MSC)	0.0 – 0.0 (CONC./MSC)	0.0 / 0.0	PASS	
04/29/2014 09:00	1	345345345	04/20/14	45.0	35.0 – 55.0	41.2	PASS	
04/29/2014 09:07	2	345632456	04/20/14	22.2	19.0 – 24.4	21.7	PASS	
04/29/2014 09:15	NEG.	324523454	04/20/14	0.0 (CONC./MSC)	0.0 – 0.0 (CONC./MSC)	0.0 / 0.0	PASS	
04/30/2014 10:10	1	345345345	04/20/14	45.0	35.0 – 55.0	39.0	PASS	
04/30/2014 10:51	NEG.	324523454	04/20/14	0.0 (CONC./MSC)	0.0 – 0.0 (CONC./MSC)	0.0 / 0.0	PASS	



Visualization System: Manual Counter



SQA-Vision
version 4.0.0.0

TEST PATIENT

QC / PROFICIENCY

VISUALIZATION

ARCHIVE

SERVICE

SETTINGS

07/31/2013 11:06

MANUAL COUNTER
ZOOM OUT TO VISUALIZE

PATIENT ID: 2345678901

PATIENT NAME: J. Johnson

SAMPLE ID: 1234567890

TEST DATE / TIME: 07/31/2013 11:18

BIRTH DATE / AGE: 07/31/1970 43

TEST TYPE: MANUAL

CRITERIA: WHO 3RD

SAMPLE TESTED: NORMAL VOLUME

MOTILE

IMMOTILE

NEXT FIELD

RAPID PR.

SLOW PR.

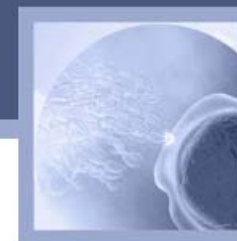
CLEAR LAST

CLEAR ALL

SAMPLE DILUTION
NONE

FIELDS COUNTED: | **TOTAL SPERM COUNTED:****NO SPERM SEEN:** ☐**RESULTS****REFRESH** **GRID ON** **FULL SCREEN** **FREEZE** **SETTINGS**

Morphology Settings



MORPHOLOGY SETTINGS

CRITERIA: WHO 5TH

TEST TYPE

NORMAL / ABNORMAL ☒

FULL DIFFERENTIAL ☐

COUNT TYPE

CLICK COUNT (KEY) ☒

MARK COUNT (CIRCLE) ☐

MORPHOLOGY SETTINGS

CRITERIA: WHO 5TH

TEST TYPE

NORMAL / ABNORMAL ☐

FULL DIFFERENTIAL ☒

COUNT TYPE

CLICK COUNT (KEY) ☐

MARK COUNT (CIRCLE) ☒

MORPHOLOGY SETTINGS

CRITERIA: WHO 5TH

TEST TYPE

NORMAL / ABNORMAL ☒

FULL DIFFERENTIAL ☐

COUNT TYPE

CLICK COUNT (KEY) ☐

MARK COUNT (CIRCLE) ☒

MORPHOLOGY SETTINGS

CRITERIA: WHO 5TH

TEST TYPE

NORMAL / ABNORMAL ☐

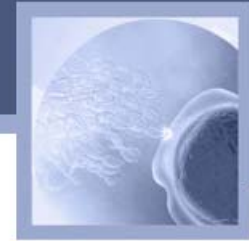
FULL DIFFERENTIAL ☒

COUNT TYPE

CLICK COUNT (KEY) ☒

MARK COUNT (CIRCLE) ☐

Morphology Differential Counter



SQA-Vision
version 4.3.6.34



TEST PATIENT

QC / PROFICIENCY

VISUALIZATION

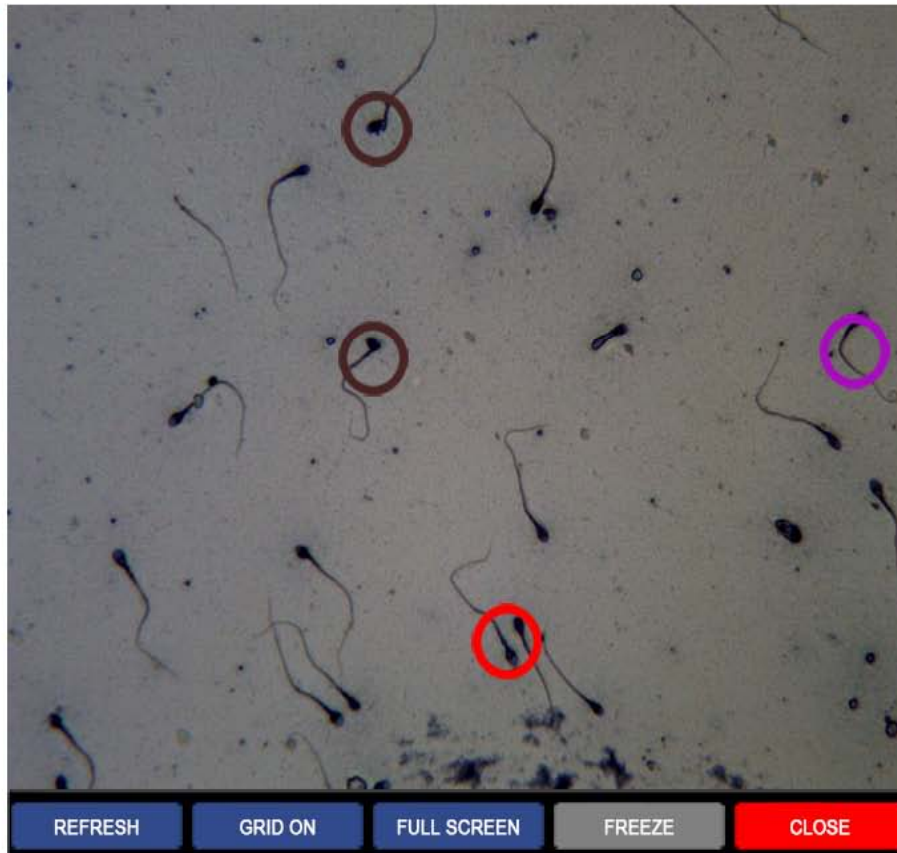
ARCHIVE

SERVICE

SETTINGS



07/31/2013 11:06



REFRESH

GRID ON

FULL SCREEN

FREEZE

CLOSE

MORPHOLOGY COUNTER

PATIENT ID: 2345678901

BIRTH DATE / AGE: 07/31/1970 43

PATIENT NAME: J. Johnson

TEST TYPE: FRESH

SAMPLE ID: 1234567890

CRITERIA: WHO 5TH

TEST DATE / TIME: 07/31/2013 11:00

SAMPLE TESTED: NORMAL VOLUME

FIELDS COUNTED: 4 | TOTAL SPERM COUNTED: 19

SAVE FIELD

NORMAL
15 (79%)

REMOVE LAST

REMOVE ALL

ABNORMAL
HEADS
0 (0.0%)

ABNORMAL
MIDPIECES
1 (5.3%)

ABNORMAL
PRINCIPAL
PIECES
1 (5.3%)

EXCESS
RESIDUAL
CYTOPLASM
0 (0.0%)

PINHEAD
2 (11.0%)

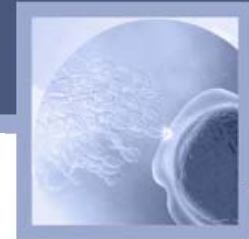
MANAGE IMAGES



CANCEL

CONTINUE

Morphology Report



Page 1 of 2

MORPHOLOGY REPORT

REPORT INFORMATION
 REPORT NAME: 23456
 CRITERIA: WHO 5TH
 REPORT DATE / TIME: 07/31/2013 13:19

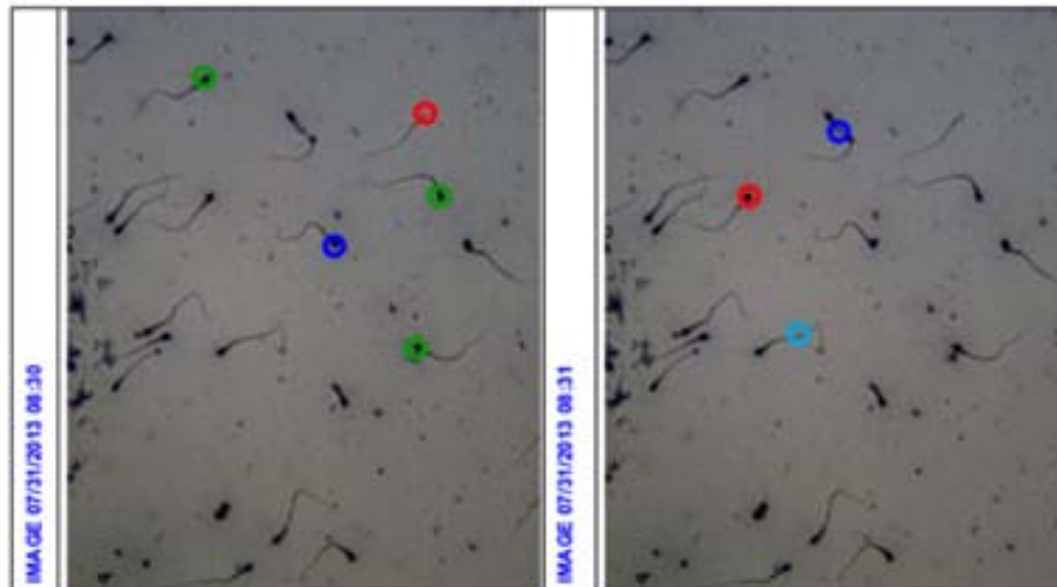
FACILITY INFORMATION
 5757 W. Century Blvd. Suite 805
 Los Angeles, CA, 90045

CONTACT INFORMATION
 PHONE: 866-557-9064
 FAX: 310-470-9069
 E-MAIL: service@mes-bc.com
 WEB: www.mes-global.com

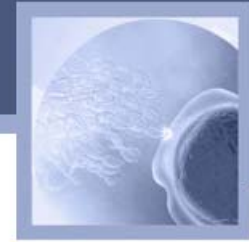


PARAMETER	RESULT	REF. VALUE	STATUS	COLOR
NORMAL FORMS (Manual, %)	41	> 65	FAIL	Green
ABNORMAL HEADS (%)	19	-	-	Blue
ABNORMAL MIDPIECES (%)	20	< 8	FAIL	Red
ABNORMAL PRINCIPAL PIECES (%)	10	-	-	Purple
EXCESS RESIDUAL CYTOPLASM (%)	7	-	-	Teal
OTHER (%)	3	-	-	Cyan
PNHEAD (%)	0	-	-	Brown

COMMENTS:



Vitality Counter



SQA-Vision
version 4.36.14



TEST PATIENT

QC / PROFICIENCY

VISUALIZATION

ARCHIVE

SERVICE

SETTINGS



07/31/2013 11:06



REFRESH

GRID ON

FULL SCREEN

FREEZE

SETTINGS

VITALITY COUNTER

PATIENT ID: 2345678901

BIRTH DATE / AGE: 07/31/1970 43

PATIENT NAME: J. Johnson

TEST TYPE: FRESH

SAMPLE ID: 1234567890

CRITERIA: WHO 3RD

TEST DATE / TIME: 07/31/2013 11:00

SAMPLE TESTED: NORMAL VOLUME

FIELDS COUNTED: 4 | TOTAL SPERM COUNTED: 5

CAPTURE
FIELD

LIVE
4 (80.0%)

DEAD
1 (20.0%)

REMOVE LAST

REMOVE ALL

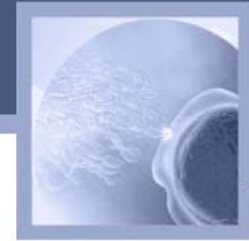
MANAGE IMAGES



CANCEL

CONTINUE

Capturing Images



SQA-Vision
version 4.3.6.14

TEST PATIENT

QC / PROFICIENCY

VISUALIZATION

ARCHIVE

SERVICE

SETTINGS

07/31/2013 11:06

REFRESH

GRID ON

FULL SCREEN

FREEZE

SETTINGS

MORPHOLOGY

VITALITY

CAPTURE

IMAGE AND VIDEO CAPTURE

REPORT NAME:

COMMENTS:

RECORD VIDEO

CAPTURE IMAGE

MANAGE VIDEOS

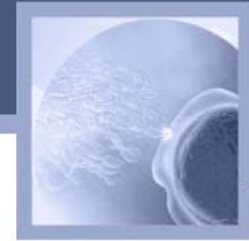
MANAGE IMAGES

NEW






REPORT

SAVE

Archive



SQA-Vision
version 4.3.6.34



TEST PATIENT

PATIENT DATA **LATEX BEADS** **STAB. SPERM** **PROFICIENCY** **MAINTENANCE** **SERVICE DATA** **VISUALIZATION**

QC / PROFICIENCY




VISUALIZATION


ARCHIVE

SERVICE

SETTINGS

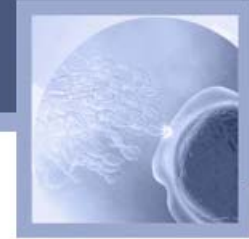
FILTER BY PATIENT ID **FILTER BY PATIENT NAME** **FILTER BY DATE**
 07/15/2013 TO 07/22/2013 **FILTER**

<input type="checkbox"/>	PATIENT ID	PATIENT NAME	TEST DATE / TIME	TEST TYPE	VISUAL ASSESSMENT
<input type="checkbox"/>	12345678900987654321	John Johnson	07/22/2013 09:20	FRESH	M V D 
<input type="checkbox"/>	22305767294856948374		07/21/2013 11:09	LONGEVITY	V 
<input type="checkbox"/>	68496804768530480244	Mike Snow	07/21/2013 08:25	WASHED	
<input type="checkbox"/>	58489444414165988945		07/20/2013 12:31	SWIM UP	
<input type="checkbox"/>	78746444465656565558		07/16/2013 09:10	GRADIENT	D 
<input type="checkbox"/>	35464646444464643314		07/15/2013 09:23	POST VASECTOMY	
<input type="checkbox"/>	15565658989832211574		07/15/2013 12:24	FRESH	M V D

**OPEN TEST** **REPORT** **SHOW ALL** **DELETE** **EXPORT**

07/31/2013 11:06

Error Messages



SELF-TEST FAILED
CLICK SERVICE FOR DETAILS

SERVICE

**THE SYSTEM IS HAVING
COMMUNICATION ISSUES**

RETRY

OFFLINE



**VIBRATIONS OR ELECTRONIC
NOISE DETECTED**

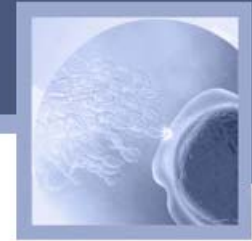
1. CLEAN THE MEASUREMENT CHAMBER WITH A BLUE DOT CAPILLARY FROM THE CLEANING KIT
2. DRY THE SYSTEM WITH A SPONGE DRYING CAPILLARY FROM THE CLEANING KIT
3. CLICK RETRY BUTTON TO BEGIN TESTING

RETRY

ZERO LEVEL FAILED THE SELF-TEST
ACCEPTABLE RANGE: 508 - 516

TROUBLESHOOT

Installing I-Button Tests



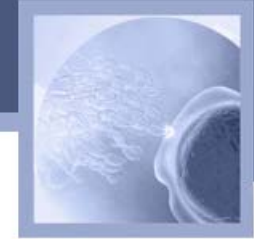
Select **ADD TESTS TO COUNTER** from the **SQA-Vision** device **SERVICE MENU** or press the **I-Button** key to open the screen below:

TO ADD MORE TESTS
HOLD NEW I-BUTTON AGAINST PORT
AND PRESS ENTER

PRESS ESC TO EXIT



Accessories: QwikCheck™ Kits



FDA and CE approved QwikCheck™ kits standardize testing and make semen analysis easier!

QwikCheck™
BEADS



QwikCheck™ Beads are a quality control material used to assess the accuracy and precision of the laboratory's sperm counting methods. The three levels of beads are labeled for running QC on the SQA-V.

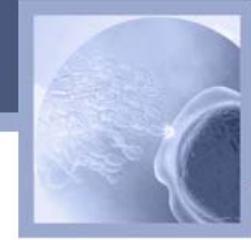
QwikCheck™
LIQUEFACTION



QwikCheck™ Liquefaction kit is used to liquefy viscous samples. The kit contains 20 single use vials.



Accessories: QwikCheck™ Kits



QwikCheck™ Test Strips are used to measure WBC and pH in semen samples. Each kit contains 100 test strips.

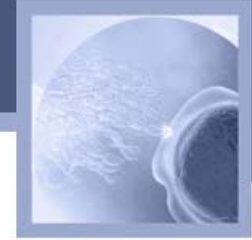
QwikCheck™
DILUTION



QwikCheck™ Dilution kits contains 50ml of sterile semen dilution media.



Accessories: QwikCheck™ Kits and Slides

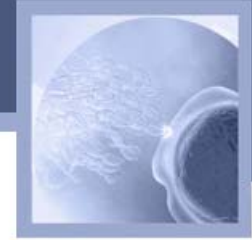


QwikCheck™ Vitality is used to stain sperm cells to assess whether they are **LIVE or DEAD**. Each kit contains 5 vials of ready to use stain.



SQA-Vision Fixed Cover-Slip Slides are used to visualize semen samples for assessment and counting. The 20 micron depth insures accuracy. 24 double chamber slides are supplied with each kit.

Accessories: Testing Capillaries



Box Includes:

- **50 disposable SQA Testing capillaries**
- **One I-button and card with 50 tests**
- **Capillary filling instructions**





SQA-VISION TRAINING

