



Automate your semen analysis to a world class standard...
Introducing Medical Electronic System's
SQA-iO and SQA-VU



- Affordable and Accurate
- Interactive user interface
- 75-second semen analysis

Remember, it All Started with a Sperm!

Medical Electronic Systems, the worldwide leader in automated semen analysis for more than 20 years, is pleased to introduce the SQA-VU, a visualization device that interfaces with the SQA-iO sperm quality analyzer. With the user friendly counting screens and image/video capture interface, sample concentration, motility and morphology can be easily assessed for automated sample confirmation.



Ease of Use and Regulatory Compliant

Guided testing interface

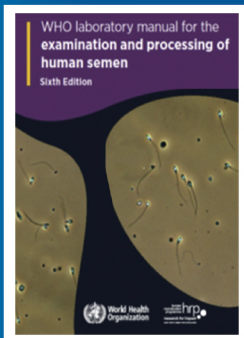
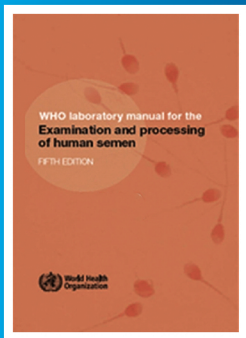
Auto calibrating

QwikCheck Beads QC

Fast with Accuracy >97%

Proficiency: CAP / QuaDeGa / NEQAS / others

WHO 5th or 6th settings



Results in
75 Seconds



Reports 18 Semen
Parameters



Replaces an Hour
of Manual Testing



Accurate > 97%



Precise



Objective



Standardized

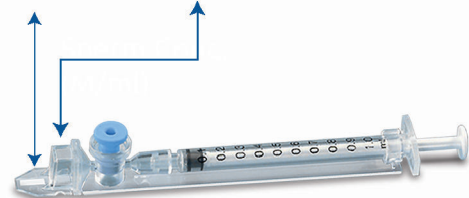
Reported Semen Parameters



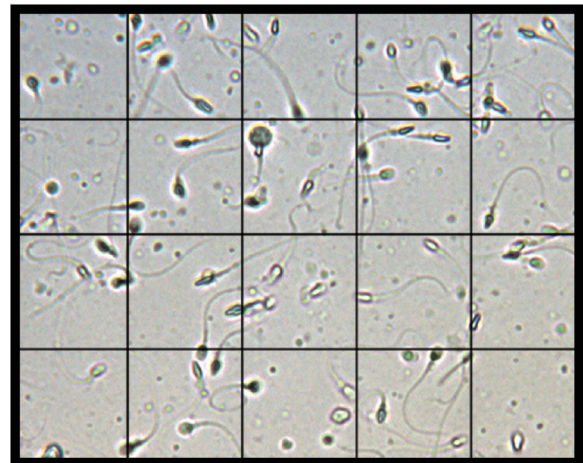
- ✓ Concentration
- ✓ Motility
- ✓ Progressive
- ✓ Rapidly Progressive
- ✓ Slowly Progressive
- ✓ Non Progressive
- ✓ Immotile
- ✓ Normal Forms
- ✓ Motile Sperm Concentration
- ✓ Prog. motile Sperm Concentration
- ✓ Rapid PR. Motile Sperm Concentration
- ✓ Slow PR. Motile Sperm Concentration
- ✓ Functional Sperm Concentration
- ✓ Total ejaculated Parameters

Disposable Sample Delivery System

Motility Chamber Concentration Chamber



Counting Grids / Patient Archive



- Manual counting grids
- Patient and test archive
- Capture and Archive sperm images and videos



SQA-iO TEST REPORT

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SQA-iO AUTOMATED SEMEN ANALYSIS RESULTS

SQA-iO MES - Signal Processing Technology

PATIENT INFORMATION

FIRST NAME:	John	LAST NAME:	Doe
PATIENT ID:	4435353	AGE:	32
REFERRING DOCTOR:	J Smith	PHONE NUMBER:	546-6784-222

SAMPLE INFORMATION

SAMPLE ID:	454546	pH:	7.5
SAMPLE TYPE:	FRESH	APPEARANCE:	NORMAL
COLLECTED DATE / TIME:	13/02/2022 10:30	VISCOSITY:	NORMAL
RECEIVED DATE / TIME:	13/02/2022 11:00	LIQUEFACTION:	0-30 Minutes
TEST DATE / TIME:	13/02/2022 11:19	ABSTINENCE (days):	7
CRITERIA:	WHO 6TH	OPTIONAL 1:	Very clear seminal plasma
VOLUME (ml):	5	OPTIONAL 2:	QwikCheck used for liquefaction
WBC CONC. (M/ml):	<=1		

REPORT CONTINUED | PATIENT ID: 134145 | TEST DATE / TIME: 13/02/2022 | 11:19

TOTALS PER EJACULATE	RESULT	UNITS	REF VALUE
SPERM #	74.0	M/ejac	>=39
MOTILE SPERM*	21.0	M/ejac	
PROG. MOTILE SPERM*	14.8	M/ejac	
FUNCTIONAL SPERM*	1.1	M/ejac	
MORPH. NORMAL SPERM*	2.2	M/ejac	

COMMENTS: Very clear seminal plasma, QwikCheck device used for liquefaction of this sample

SMI (Sperm Motility Index) A CONTRIBUTING PREDICTOR OF MALE FERTILITY

What is SMI?

- Sperm Motility Index (SMI) is an MES SQA automatically generated index integrating motile sperm curvilinear velocity (VCL) into one value. It is reported in whole numbers without units.
- The positive correlation of SMI to male fertility was established and described in a number of publications.

SMI Grading and Male Fertility Potential:

- Studies have shown the correlation of SMI to male fertility potential as follows: 'LOW' (SMI < 80) (SMI = 80-160) and 'HIGH' (SMI > 160) with an SMI reference value (cut-off) of 80.
- Conclusions: In conjunction with other semen parameters, SMI can be utilized to assess/grade male fertility potential.

PARAMETER	RESULT	UNITS	REF VALUE	MOTILITY GRAPH
CONCENTRATION	24.7	M/ml	>=16	<p>(72%) (8%) (12%) (8%)</p> <p>Legend: ■ Rapidly Progressive (%) ■ Slowly Progressive (%) ■ Non-Progressive (%) ■ Immotile (%) </p>
MOTILITY	28	%	>=42	
PROGRESSIVE	20	%		
RAPIDLY PROGRESSIVE	8	%		
SLOWLY PROGRESSIVE	12	%		
NON-PROGRESSIVE	8	%	<=1	
IMMOTILE	72	%	<=20	
NORMAL FORMS	3	%	>=4	
MOTILE SPERM CONC.*	7.0	M/ml		
PROG. MOTILE SPERM CONC.*	4.9	M/ml		
RAPID PR. MOTILE SPERM CONC.*	1.9	M/ml		
SLOW PR. MOTILE SPERM CONC.*	3.1	M/ml		
FUNCTIONAL SPERM CONC.*	0.4	M/ml		
VELOCITY (VCL)*	31	mic/sec	>=5	
SPERM MOTILITY INDEX*	27	---		

* MES parameters are indicated by an asterisk.

Signature: Tester Name: John Doe Title (Designation): Lab Technician

SQA-iO Device SR: 10111 | Conc. Standard 1 | 20/05/2020 11:30:01 | AVG 55.81 | AW 15427 | CNT 330 | OD 1.126

Signature: Tester Name: John Doe Title (Designation): Lab Technician

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