

# SQA-Ve Sperm Quality Analyzer for Stallions

*Automated  
Semen Analysis  
in 2 minutes!*

**The SQA-Ve** is an analytical veterinary device that performs a complete quantitative evaluation of equine semen in **2 minutes**. This high performance, user-friendly system will standardize processes, enhance through-put and increase the accuracy and quality of semen analysis and AI dose preparation for raw, extended, cooled and frozen equine semen.

**RAW Mode:** Tests fresh semen & calculates how to to prepare frozen, extended or cooled doses based on total, motile or progressively motile sperm concentration. Select target values for concentration and maximum volume per dose.

### **EXTENDED, COOLED and FROZEN Modes:**

Test samples prior to shipping/insemination to determine the quality of the sample.

### **Features**

- Tests raw, extended, cooled and frozen equine semen
- Automated dosing
- User-friendly with precise screen directions and minimal key-strokes
- FDA and CE certified
- QC: Self-testing, self-calibrating.
- Visualization system (x300 to x500 magnification)
- Disposable and reusable testing capillary
- Data export to a PC in formatted Excel tables or in .csv format



### **Automated Tests**

- Sperm Concentration
- Motile Sperm Concentration (MSC)
- Progressively Motile Sperm Concentration (PMSC)
- % Motility
- % Progressive Motility
- Velocity
- % Morphology

### **Performance Claims**

#### **Specificity**

- Concentration: 100%
- Motility: 96%
- Morphology: 93%
- Prog Motility: 90%

#### **Sensitivity**

- Concentration: 96%
- Motility: 95%
- Prog Motility: 100%

#### **Correlation to Manual Method**

- Concentration: 0.99
- Motility: 0.96
- Morphology: 0.74
- Prog Motility: 0.89

# E-Sperm™ Data Management Software for the SQA-Ve

**SQA-Ve Test Report**  
**RAW SEMEN WITH FROZEN DOSING RESULTS**  
All Records

SAMPLE DATA			TEST RESULTS							DOSE PREPARATION: FROZEN					
Date	Time	Station	Sample #	Semen Volume (ml)	Sperm Conc. (M/ml)	Motility (%)	Prog. Motility (%)	Motile (per field)	Velocity (microns)	Dosing Method	Residual to input (ml)	# Doses	# Sperm / Dose (M)	Dose Volume (ml)	Dosing Error
06/05/2008	09:25	7	Trigger	74	50.0	141.0	52.1	51.0	N/A	100	N/A	0	079	0.5	
07/05/2008	09:15	7	Trigger	75	55.0	136.6	64.7	63.3	N/A	113	N/A	0	923	0.5	
07/05/2008	09:10	4	Men of War	72	130.0	47.2	28.8	11.8	N/A	19	N/A	0	794	0.5	
06/05/2008	09:25	2	Mk Ed	71	115.0	185.6	38.0	38.0	N/A	81	N/A	0	N/A	N/A	1
06/05/2008	09:00	2	Mk Ed	70	43.0	255.3	37.3	30.2	N/A	60	N/A	12	707	0.5	
06/05/2008	12:20	7	Trigger	39	50.0	141.0	52.1	51.0	N/A	100	N/A	0	079	0.5	
04/05/2008	12:15	7	Trigger	32	50.0	136.6	64.7	63.3	N/A	113	N/A	0	923	0.5	
04/05/2008	12:10	4	Men of War	30	130.0	47.2	28.8	11.8	N/A	19	N/A	0	794	0.5	
03/05/2008	12:05	2	Mk Ed	25	115.0	185.6	38.0	38.0	N/A	81	N/A	0	N/A	N/A	
03/05/2008	12:00	2	Mk Ed	34	40.0	255.3	37.3	30.2	N/A	60	N/A	0	N/A	N/A	



**E-Sperm** Version 1.00

Request:  Scheduled Dosing:  Frozen Dosing:  Import:  Test:  Exit:

**DOSE PREPARATION: FROZEN**

Station ID:  Station Name:

Date:

Semen Volume (ml):  Sperm Conc. (M/ml):

Motility (%):  Prog. Motility (%):

**DOSING SETUP:**

Dosing Method:  Dose Volume (ml):

# Sperm / Dose (M):

Residual to input (ml):  # Doses:  Dose Volume (ml):

## Data Management Software for use with the SQA-Ve

### Features

- Import test data from the SQA-Ve
- Automated dosing based on total, motile or progressively motile sperm concentration
- Report tables
- Data base of test and dosing results
- Password/security
- Optional language settings

### System Requirements

- PC: 1 GHz processor, Pentium 3, RAM: 256 MB
- Monitor: 15" color
- AGP-video display card with at least 16 MB of RAM memory
- Video color: At least 16 bit (65,535)
- CD ROM drive
- 10 GB free hard disk space for image capturing (approx. 10,000 clips)
- Video resolution: Minimum 640 x 480
- Operating system compatibility: Windows XP, Windows Vista
- Ports: One serial; two USB ports
- MS Excel/Word