

2017 | **SPERM QUALITY ANALYZERS
FOR VETERINARY / BREEDING**
MES | CATALOGUE



COMPANY PROFILE

Dear Partners!

West Medica company specializes in manufacturing and distribution of veterinary equipment.

The company was established in 1993. Our market experience through close cooperation with our distributors allows us to produce and deliver high quality products.

The production facility is located in Upper Austria, in Frankenmarkt.

We participate in medical conferences and exhibitions, as well as organize workshops and master classes with leading specialists to provide you with up-to-date information on veterinary medicine.

Our wide distribution network allows us to provide our customers with constant product availability and an efficient after-sales service with qualified personnel. They will answer any questions you might have.

Your friendship and trust are very significant to us and our goal is to provide you with high-quality and professional support.



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SQA-Vb™

Sperm Quality Analyzer for Bulls



The **SQA-Vb™** is an analytical veterinary device that performs a complete quantitative evaluation of semen quality in **less than 1 minute**. This high performance, user-friendly system will standardize processes, enhance through-put and increase the accuracy of semen analysis, straw/AI dose preparation and Breeding Soundness Evaluations.

Dosing Mode: Tests fresh semen and calculates how to prepare the AI doses and distribute the samples into straws based on Motile, Total or Progressively motile sperm concentration.

QC/Frozen Mode: Tests frozen straws to determine the # of TOTAL and # of MOTILE cells per straw.

Breeding Soundness Evaluation Mode: Tests fresh bull semen in order to evaluate the fertility potential of an individual bull.

- Tests both fresh and frozen semen
- Automated dosing
- User-friendly with precise screen directions and minimal key-strokes
- QC: Self-testing, self-calibrating. Runs latex beads QC material
- Visualization system (x300 to x500 magnification)
- Disposable and reusable testing capillary
- B-Sperm™ software included for data, herd and QC management

Parameters tested

- Sperm concentration
- Motile sperm concentration (MSC)
- Progressively motile sperm concentration (PMSC)
- % Motility
- % Progressive motility
- Velocity
- % Morphology

Performance Claims

- Specificity
 - > Concentration: 90 %
 - > Motility: 80 %
 - > Morphology: 97 %
- Sensitivity
 - > Concentration: 90 %
 - > Motility: 85 %
 - > Morphology: 85 %
- Correlation to manual method
 - > Concentration: 0.9
 - > Motility: 0.8
 - > Morphology: 0.7

Ordering Information

Description	Code
SQA-Vb™ sperm quality analyzer for bulls	0600

SQA-Vp™

Sperm Quality Analyzer for Pigs



The **SQA-Vp™** is an analytical veterinary device that performs a complete quantitative evaluation of semen quality in **less than 1 minute**. This high performance, user-friendly system will standardize processes, enhance through-put and increase the accuracy of testing and dose preparation. A QC mode ensures that samples meet quality standards prior to AI.

Dosing-fresh mode: Analyzes fresh semen and provides dosing calculations based on total, motile, or morphologically normal sperm per AI dose.

Extended mode: Tests samples to determine the Motile and Total sperm concentration and other parameters for batch control and quality control prior to insemination.

- Tests both fresh and frozen semen
- Automated dosing
- User-friendly with precise screen directions and minimal key-strokes
- QC: Self-testing, self-calibrating. Runs latex beads QC material
- Visualization system (x300 to x500 magnification)
- Disposable and reusable testing capillary
- P-Sperm™ software included for data, boar and QC management

Parameters tested

- Sperm concentration
- Motile sperm concentration (MSC)
- % Motility
- Motility grading (0–5)
- % Morphology
- Sperm # (billions per ejaculate)
- Motile Sperm # (billions per ejaculate)

Performance Claims

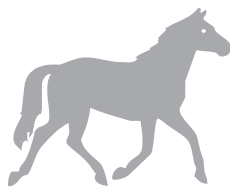
- Specificity
 - > Concentration: 90 %
 - > Motility: 75 %
 - > Morphology: 80 %
- Sensitivity
 - > Concentration: 90 %
 - > Motility: 75 %
 - > Morphology: 60 %
- Correlation to manual method
 - > Concentration: 0.9
 - > Motility: 0.8
 - > Morphology: 0.7
- Precision CV's
 - > Concentration: 3 %
 - > Motility: 5 %
 - > Morphology: 5 %

Ordering Information

Description	Code
SQA-Vp™ sperm quality analyzer for pigs	0550

SQA-Ve™

Sperm Quality Analyzer for Stallions



The **SQA-Ve™** is an analytical veterinary device that performs a complete quantitative evaluation of equine semen in **less than 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.

Fresh mode: Test fresh semen and calculate how to prepare frozen, extended or cooled doses based on total, motile or progressive motile sperm concentration. Select target values for concentration and maximum volume per dose

Extended mode: Tests extended samples prior to insemination to determine the quality of the sample.

Frozen mode: Tests frozen equine semens prior to insemination to determine the quality of the sample.

- Tests fresh, frozen and extended semen
- Automated dosing
- User-friendly with precise screen directions and minimal key-strokes
- QC: Self-testing, self-calibrating. Runs latex beads QC material
- Visualization system (x300 to x500 magnification)
- Disposable and reusable testing capillary
- Data export to a PC

Parameters tested

- 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 %
 - > Progressive motility: 90 %
- Sensitivity
 - > Concentration: 96 %
 - > Motility: 95 %
 - > Progressive motility: 100 %
- Correlation to manual method
 - > Concentration: 0.99
 - > Motility: 0.96
 - > Morphology: 0.74
 - > Progressive motility: 0.89

Ordering Information

Description	Code
SQA-Ve™ sperm quality analyzer for equines	0650

SQA-Vt™

Sperm Quality Analyzer for Turkey



The **SQA-Vt™** is an analytical veterinary device that performs a complete quantitative evaluation of semen quality in **less than 1 minute**. This high performance, user-friendly system will standardize processes, enhance through-put and increase the accuracy of semen analysis, AI dose preparation, sorting and overall flock management.

Dosing mode: Tests both neat and diluted pooled semen. Performs AI dosing calculations based on motile or total sperm concentration.

QC mode: Analyzes the quality of turkey semen prior to insemination after extenders or diluents have been added to the sample. Semen parameters tested: Total and Motile Sperm Concentration and % Motility.

Sorting mode: Analyzes the semen of individual toms in a flock. Test results can be grouped by flock and flock histograms generated.

- Tests both fresh and extended semen
- Automated dosing
- User-friendly with precise screen directions and minimal key-strokes
- QC: Self-testing, self-calibrating. Runs latex beads QC material
- Visualization system (x300 to x500 magnification)
- Disposable and reusable testing capillary
- T-Sperm™ software included for data, flock and QC management

Parameters tested

- Total sperm concentration (TSC)
- Motile sperm concentration (MSC)
- % Motility

Performance Claims

- Precision (CVs)
 - > TSC: 4.0 %
 - > MSC: 5.5 %
 - > Motility: 6.0 %
- Accuracy
 - > TSC: 0.9
 - > MSC: 0.9
 - > Motility: 0.9
- Correlation to manual method
 - > Concentration: 0.9
 - > MSC: 0.65

Ordering Information

Description	Code
SQA-Vt™ sperm quality analyzer for turkeys	0425

Specifications of SQA-V™ series

General characteristics

Measurement Compartment	<ul style="list-style-type: none"> — sources of radiant energy — two LEDs for motility and spectrophotometry channels — detector system — two photo detectors — Motility and Optical Density
Visualization Compartment	<ul style="list-style-type: none"> — white LED illumination system — CCD, 330 TV lines — objective: Standard, 20x — signal output: PAL standard — ZOOM system for magnification transition between x300 and x500 — focus regulator
Displays	<ul style="list-style-type: none"> — operational backlight LCD (16 lines x 40 characters) — video backlight LCD (8x10 cm)
Printer	<ul style="list-style-type: none"> — built-in, dot matrix — 58 mm paper, with 20 characters per line — ribbon cassette
Keypad	<ul style="list-style-type: none"> — operational keys — numeric buttons — cursor buttons — video control keys
Interface	<ul style="list-style-type: none"> — video output (RCA) — RS-232 cable plug-in
Accessories for testing sample	<ul style="list-style-type: none"> — measuring capillary: plastic, loaded syringe for an easy aspiration of sample — standard laboratory microscope slide: depth 20 microns, coverslip 22x22 mm
Memory	500 test results, 500 QC-measurement
Analysis time	less than 1 min (SQA-Vb™, SQA-Vp™, SQA-Vt™), less than 2 min (SQA-Ve™)
Signals	<ul style="list-style-type: none"> — input signal from motility channel: analog, up to 5 V — input signal from spectrophotometer channel: modulated (1 kHz), analog, up to 5 V
Quality control	— internal electronic self- test and auto-calibration
Dimensions, weight	40x30x15 cm (HxWxD), 5 kg
Power supply	100–250 V AC, 50/60Hz
System requirements for software	CPU 1 GHz or better, RAM 256 MB, HDD free space 200 MB, AGP-Video Board with minimum 16 MB RAM, Monitor 15" with minimum resolution 640x480 and 16-bit color, CD-ROM drive, Windows XP OS and higher, DirectX, DivX, RS-232 and two USB ports

B-Sperm™

Video & Data management software for the SQA-Vb™



B-Sperm™ is a software package that is included with every SQA-Vb™ and greatly enhances the data management, storage and video capabilities of the system.

- Import test data from the SQA-Vb™
- Automatic dosing: Calculate doses by motile, total or # progressively motile sperm per straw (automatically considers BULL PMLF)
- Standardize dosing by setting up facility protocols that automatically calculate dose instructions
- Reports BULL PMLF (progressive motility loss factor)
- Run histograms and sort data by herd and bull
- View live semen samples on the PC screen
- Save test results with video clips or still images attached
- Optional language settings

P-Sperm™

Video & Data management software for the SQA-Vp™



P-Sperm™ is a software package that is included with every SQA-Vp™ and greatly enhances the data management, storage and video capabilities of the system.

- Import test data from the SQA-Vp™
- Automatic AI dosing: Calculate doses by motile, total or morphologically normal sperm
- Collect and sort data, run graphs and view the test results by individual boar
- View live semen sample images on the PC screen
- Save test results with video clips or still images attached
- Password/security
- Optional language settings

E-Sperm™

Video & Data management software for the SQA-Ve™



E-Sperm™ is a software package that is included with every SQA-Vp™ and greatly enhances the data management, storage and video capabilities of the system.

- Import test data from the SQA-Ve™
- Automatic dosing based on motile, total or progressive motile sperm concentration
- Report tables
- Database of test and dosing results
- Save test results with video clips or still images attached
- Password/security
- Optional language settings

T-Sperm™

Video & Data management software for the SQA-Vt™



T-Sperm™ is a software package that is included with every SQA-Vt™ and greatly enhances the data management, storage and video capabilities of the system.

- Import test data from the SQA-Vt™
- Automatic dosing: Calculates by motile sperm concentration (MSC) or total sperm concentration (TSC)
- Run flock histograms for TSC, MSC and Motility and view sorting tables
- View live semen images on the PC screen
- Save test results with video clips or still images attached
- Password/security
- Optional language settings

QwikCheck™ Gold Series

Sperm Quality Analyzers



QwikCheck Gold is designed for smaller operations that still demand the highest levels of accuracy and precision during semen evaluation. Internal temperature control and an external pre-heating dock ensure consistent readings throughout the testing cycle.

- Fast, simple and accurate semen testing in less than one minute
- Temperature control
- Prints test results on a label maker
- 250 record archive for test results and later printing
- QC: self-testing, self-calibrating
- Reusable, washable testing capillary

Ordering Information

Description	Code
QwikCheck™ Gold Bull sperm quality analyze for bulls	FPE-FA-00371-00
QwikCheck™ Gold Pig sperm quality analyze for pigs	FPE-FA-00370-00
QwikCheck™ Gold Equine sperm quality analyze for equines	FPE-FA-00369-00



QwikCheck™ Gold Bull

Sperm Quality Analyzer for Bulls

- Tests fresh and frozen bull semen

Parameters tested

- Total sperm concentration (TSC)
- % Motility
- Morphology (% Normal)
- Progressive motility
- Motile sperm concentration (MSC)
- Progressive motile sperm concentration (PMSC)
- Velocity
- Total # Sperm
- Total # Prog. Motile Sperm
- Total # Motile Sperm



QwikCheck™ Gold Pig

Sperm Quality Analyzer for Pigs

- Tests fresh and extended pig semen

Parameters tested

- Total sperm concentration (TSC)
- % Motility
- Motility grading # 1–4
- Motile sperm concentration (MSC)
- Total # Sperm
- Total # Motile Sperm
- Morphology



QwikCheck™ Gold Equine

Sperm Quality Analyzer for Equines

- Tests raw, extended, cooled and frozen equine semen

Parameters tested

- Total sperm concentration (TSC)
- Motility
- Progressive motility
- Motile sperm concentration (MSC)
- Progressive motile sperm concentration (PMSC)
- Velocity

Specifications of QwikCheck™ Gold series

General characteristics

Measurement Compartment	<ul style="list-style-type: none"> — sources of radiant energy — two LEDs for motility and spectrophotometry channels — detector system — two photo detectors — Motility and Optical Density
Display	operational backlight LCD (16 lines x 40 characters)
Printer	<ul style="list-style-type: none"> — external label printer (optional) — thermostatic label paper with 30 characters per line (Brother)
Keypad	<ul style="list-style-type: none"> — operational keys — numeric buttons — cursor buttons
Interface	RS-232 cable outlet
Accessories for testing sample	measuring capillary: plastic, loaded syringe for an easy aspiration of sample
Analysis Time	normal test — about 75 seconds
Temperature control	37 °C
Signals	<ul style="list-style-type: none"> — motility channel input signal: analog, up to 5 V — spectrophotometer channel input signal: Modulated (1 kHz) analog, up to 5 V
Quality Control	internal: electronic self-test and auto-calibration
Dimensions, weight	20x30x15 cm (HxWxD), 4.1 kg
Power supply	100–250 V AC, 50/60 Hz, 10 VA





MES EUROPE
Franz-Siegel-Gasse 1
2380 Perchtoldsdorf, Austria
tel.: +43 (1) 804 81 84
fax: +43 (1) 804 81 85
info@mes-europe.com

www.mes-europe.com

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