SQA-Vb BULL Sperm Quality Analyzer

Remember, it all started with a sperm!

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 Soundess 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.

Features

- Tests both fresh and frozen semen
- Automated dosing
- User-friendly with precise screen directions and minimal key-strokes
- FDA and CE certified
- 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

Automated Tests

- 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

A-Tech Advanced Agricultural Technologies
A Division of Medical Electronic Systems

www.a-tech-global.com

B-Sperm™ Video & Data Management Software for the SQA-Vb

Video & Data Management Software for use with 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.

Features

- 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

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, Windows 7
- Ports: One serial; two USB ports
- MS Excel/Word

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