SQA-V Sperm Quality Analyzer

Automated
Semen Analysis
in less than
2 minutes

he SQA-V is an analytical medical device that performs a complete quantitative evaluation of semen quality and semen parameters in less than 2 minutes. This high performance analyzer incorporates technology in electro-optics, computer algorithms and video microscopy to provide a quick, precise and accurate automated semen analysis that is unmatched by manual methods.

Features

- Runs fresh, frozen and washed semen
- Disposable testing capillary
- Requires no sample dilution
- FDA and CE certified
- QC: Self testing, self calibrating. Runs latex beads or stabilized sperm
- Visualization system (x300 & x500)
- PC compatible
- V-Sperm[™] software included



Automated Test Results

Total Sperm Concentration

% Motility

% Progressive Motility

% Immotility

% Normal Morphology

Motile Sperm Concentration

Progressively Motile Sperm Concentration

Functional Sperm Concentration

Average Velocity

Sperm Motility Index



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wavelength of light is absorbed by the sperm cells in the concentration chamber of the SQA-V testing capillary. An optical density detector measures the light absorbed by the cells. This is translated into cell concentration by a microprocessor based on a proprietary MES

algorithm.

Performance Claims

Specificity

Concentration: 85% Motility: 80%

Calculated Normal Morphology

(WHO): 65%

High Sensitivity/Postvasectomy: 95% of motile cells detected

Sensitivity

Concentration: 90% Motility: 85%

Calculated Normal Morphology

(WHO): 85%

Correlation to Manual Method

Concentration: 0.9 Motility: 0.85

Calculated Normal Morphology

(WHO): 0.65

Motility: Tens of thousands of sperm cells are analyzed as they move through a light source in the SQA-V: The movement of motile sperm causes light disturbances. These light disturbances are converted into electronic signals with "peaks and valleys." These electronic signal peaks are analyzed by a microprocessor and translated into motility based on a proprietary MES algorithm.

Normal Morphology: This is a calculated parameter based on a correlation between sperm motility and morphology. MES developed a proprietary algorithm that expresses NORMAL morphology as it relates to motility, progressive motility, and velocity. This parameter is useful as a qualitative indicator of normal vs. abnormal morphology.

