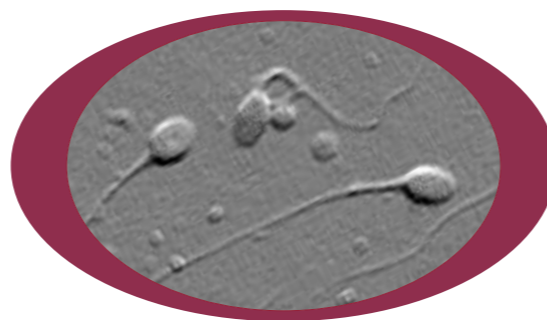




The **MARQ™** (Male Assessment of Reproductive Quality) In-Vitro Diagnostic Professional System offers fast, accurate, point-of-care assessment of semen parameters. Using proprietary technology for collection and testing, the **MARQ™** kits allow semen analysis to be performed on the spot using either fresh or processed samples. Results are immediate, patient anxiety is reduced and prompt medical follow-up is promoted. The **MARQ™** colorimetric tests may be interpreted visually as a semi-quantitative screening test or with the **AutoMARQER™ Reader** when quantitative results are required.

For added patient comfort, the **FertilMARQ™** and **VasMARQ™** tests will also be available as home test kits. The kits will contain all supplies required for sample collection, preparation and testing within the privacy of one's home.



MARQ

SYSTEM

The Collection Cup

Fertility testing is performed on liquefied semen. Under standard conditions, human semen may take up to an hour or more to liquefy. However, by using the special enzyme pre-coated collection cup provided with the **MARQ™** kits, most samples completely liquefy within 2-3 minutes. Increased speed of liquefaction means results are obtained in minutes instead of hours!

Under Development

ChromMARQ™: chromatin status
AcroMARQ™: acrosomal status
ImmunoMARQ™: anti-sperm antibodies

AutoMARQER™ Specifications

L x W x H: 11.75 x 6.75 x 4.75 inches
(298 x 171 x 121 mm)

Weight: 5 lb (2.3 kg)

Electrical: 100-240 V, 50-60 Hz, 1 A

Distributed by:



EMBRYOTECH™
Laboratories

323 Andover Street, Wilmington, MA 01887 USA
(800) 673-7500, (978) 658-4600, Fax: (978) 658-5777
info@embryotech.com, www.embryotech.com



Catalog Numbers

MARQ Test Kits

FertilMARQ 2-Test Kit	FM-2
FertilMARQ 10-Test Kit	FM-10
VasMARQ 2-Test Kit	VM-2
VasMARQ 10-Test Kit	VM-10
VitalMARQ PLUS 10-Test Kit	VTMP-10
LeukoMARQ PLUS 10-Test Kit	LMP-10

AutoMARQER & Accessories

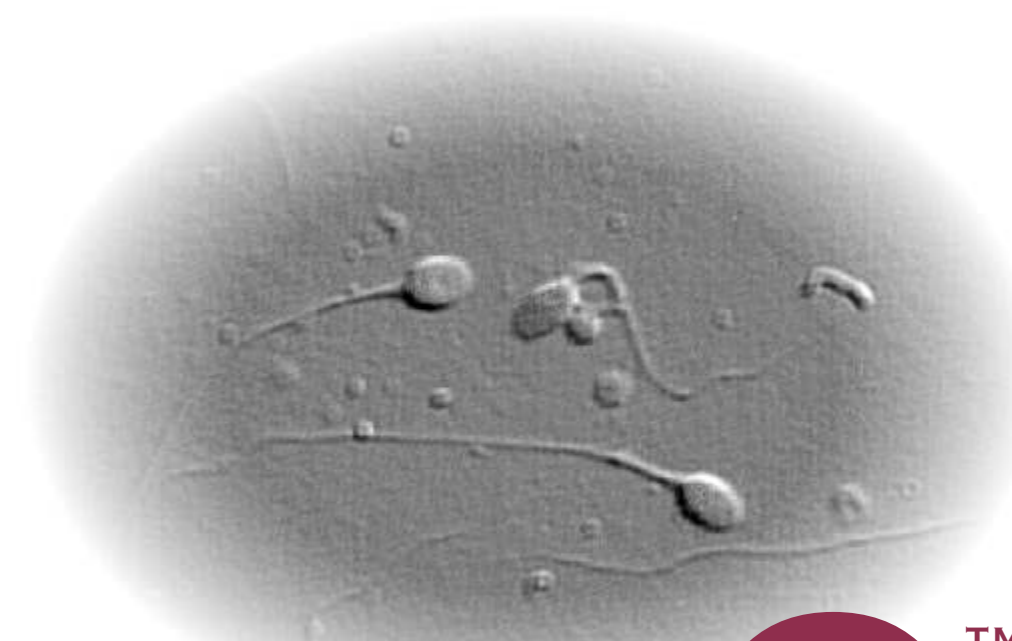
AutoMARQER	AMQ-1
DC Battery Backup	AMQ-DC

Pre-Coated Collection Cups

Package of 24 Cups	MQC-24
Package of 48 Cups	MQC-48

MARQ Quality Control Products

Accu-MARQ Beads	AMQ-QCB
<small>(QC Bead Suspension - Varying Dilutions, please inquire)</small>	



MARQ™

SYSTEM

**SERIES OF MALE
FERTILITY
DIAGNOSTICS**



EMBRYOTECH™
Laboratories

MARQ™

RAPID KITS FOR MALE FERTILITY TESTING



MARQ™ Cassette

FERTIL MARQ™

SPERM CONCENTRATION

The FertilMARQ™ test determines if the sperm concentration is above or below 20 million/ml.

VAS MARQ™

POST-VASECTOMY

For post-vasectomy screening, the VasMARQ™ test monitors the efficacy of vasectomy, minimizing the waiting period for unprotected sexual intercourse.

VITAL MARQ™ PLUS

CONCENTRATION & VIABILITY

In addition to quantifying sperm concentration, the VitalMARQ™ test also assesses sperm viability.

LEUKO MARQ™ PLUS

WHITE BLOOD CELLS

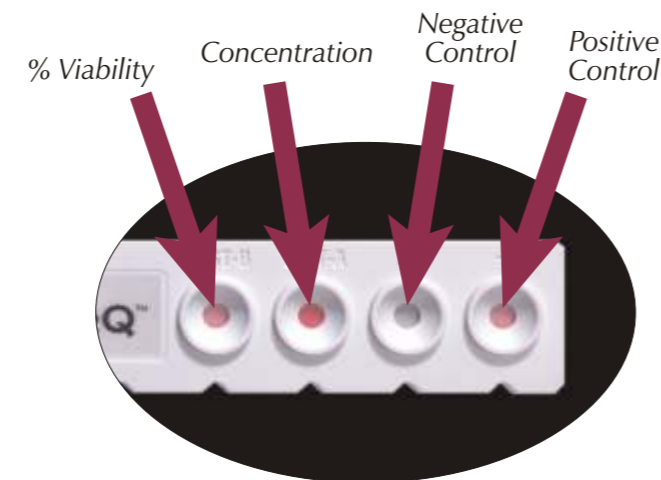
When infection is suspected, the LeukoMARQ™ test determines if leukocyte count is above the threshold standard established by the World Health Organization.



It is a **FACT** that most males with male factor infertility have a sperm concentration in semen below 20 million/ml, the standard recommended by the World Health Organization.

The novel MARQ™ System provides cost-effective, accurate and reproducible semen analysis within minutes. The MARQ™ technology is designed to:

- Effect the physical separation of sperm from seminal plasma and other semen components present in fresh or processed samples.
- React with multiple components present in differentiated sperm and thus provide a visible average signal that is representative of the entire sperm sample.
- Measure the signal from millions of cells (in comparison to microscopic analysis which, for practical considerations, must limit counting to hundreds of cells).
- Provide semi-quantitative results of FertilMARQ™ and VasMARQ™ tests by colorimetric, visual interpretation.
- Provide quantitative results of VitalMARQ PLUS™ and LeukoMARQ PLUS™ tests with the AutoMARQER™ reader.
- Promote fast liquefaction and homogeneity of semen samples through use of a special enzymatic pre-coating on the collection cup.



VitalMARQ™ Test Results

Male Infertility Parameters	
World Health Organization	MARQ™
sperm concentration	✓
sperm count	✓
viability	✓
leukocyte concentration	✓

Infertility parameters tested using the rapid MARQ™ kits.

The compact AutoMARQER™ is less than 5 inches in height!
(11.75" x 6.5" x 4.75")

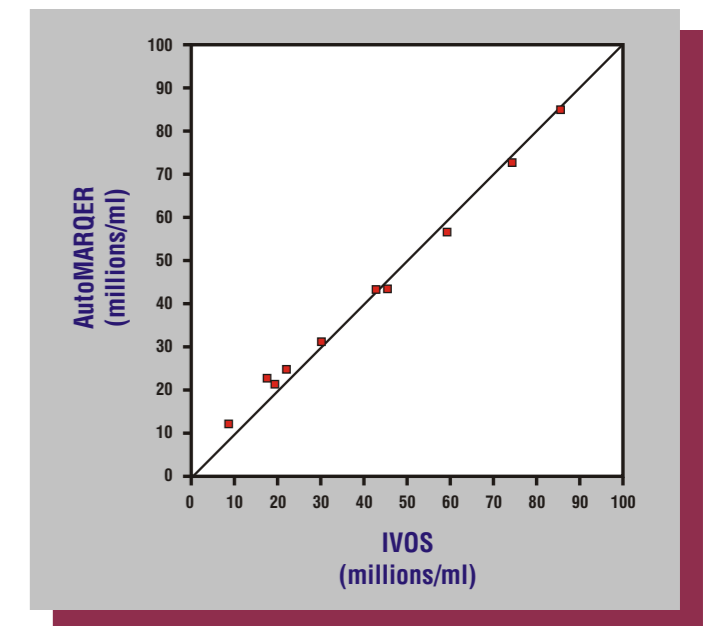


AUTO MARQER™

The AutoMARQER™ Reader introduces novel instrumentation and programming in an "easy-to-use" system. Combining advanced light sources, microprocessing and innovative optical design, the MARQ™ system provides low cost, high speed, quantitative semen analysis.

Simple menu guide you through the analysis. The MARQ™ cassette is inserted into the AutoMARQER™ until it "clicks" into place. The instrument automatically determines which type of test is in use.

After each test well is read, you are prompted to advance the cassette to the next position. After the last test well is read, the results are immediately displayed on the LCD panel. If desired, the results may be transferred to a computer.



The above graph compares human sperm at varying concentrations through use of the AutoMARQER VitalMARQ™ (DNA stain) vs. IVOS CASA (IDENT DNA fluorescent stain).

The AutoMARQER is manufactured exclusively for Embryotech Laboratories, Inc. by Hamilton Thorne Research (Beverly, MA).