Leja® slides are high quality disposable counting chambers especially made for semen analysis. Due to their special characteristics, Leja slides will save both time and increase the level of accuracy and precision when performing semen analysis. Ideal for use with manual semen analysis and are the preferred choice with CASA systems worldwide.

Leja Human Semen Analysis Slides

Covered with a special coating to prevent air bubble formation and to stop semen from sticking to the chamber surface. Leja slides have an excellent low limit of quantification for low sperm counts and can handle high sperm concentrations. The clinical implication of this is that the lab is well equipped to determine a threshold to choose between IUI, IVF, or ICSI for example.

The high level of accuracy and precision of the Leja chambers will allow your results to be compared with other laboratories’ scientific data concerning the relationship between semen parameters (concentration, motility, viscosity) and fertility.

Leja Human Azoospermia & Post-Vasectomy Slides

The Leja 100 micron slide has two purposes. First, it can be used to determine azoospermia, secondly it can be used to perform a post-vasectomy check.

Due to the large, fixed volume of the chamber, the Leja method for determining azoospermia is the most accurate, reliable and time-saving procedure to determine azoospermia and very low sperm count (0-20,000/ml). The Leja 100 micron slide is the best way of getting a statistical meaningful result combined with speed.
Leja slides are recommended for both manual and automated (CASA) sperm assessment. See our CEROS II or IVOS II sperm analysers on page 8.

Free gridded reticule and manuals are available on request with the first Leja order to enable microscope setup and perform manual counts with Leja slides in less than 30 minutes.

All Leja Slides are CE marked for IVD. Each box comes with a Certificate of Analysis.

Leja Rat Toxicology Slides

These slides are specially developed for toxicology research with rat sperm and have a maximum chamber height deviation of 10%. Not suitable for post-vasectomy checks.

Hamilton Thorne 2X-CEL Slides for Human & Rat Analysis

To accommodate all sample types, the 2X-CEL chambers are easily loaded by either the capillary action or drop method.

The 20 micron 2X-CEL slide is designed for human semen analysis with a special hydrophobic barrier to guard against overfilling, resulting in increased accuracy in determination of sperm concentrations and total counts. Developed specifically for motility analysis of rat sperm, the 80 micron 2X-CEL provides an easy to handle, clean alternative to the cannula.
Sperm Morphology Analysis

Pre-stained Morphology Slides

V-SPERM MORPHO SLIDEs from Vitromed are a ready-to-use, simple and inexpensive way of performing sperm morphology assessment. Time and cost efficient compared to more complex staining protocols, V-SPERM MORPHO SLIDEs produce pure and clear exposure of sperm anatomy in addition to well-defined assessment of sperm morphology.

Main Components:
- Cresyl Violet Acetate
- New Methylene Blue

Immersion Oil

Immersion oil is used in conjunction with an immersion objective lens for high resolution and contrast examination of smeared and stained specimens.

Haema Quick Stain (Diff Quick)

Haema Quick-Stain is an easy to use, three-step procedure staining kit containing three ready-to-use solutions.

The reagents provide excellent yield and colour intensity for consistent and reproducible staining quality in only one minute.

Results are equivalent to the Pappenheim method for clear differential results of hematological smears and different clinical specimens.
Sperm Analysis Essentials

**MiniTherm Stage Warmer**

Hamilton Thorne’s MiniTherm Stage Warmer allows accurate and portable analysis of sperm motility and velocity by maintaining sample temperature at 37°C. It is designed for use with disposable sperm analysis chambers and microscope slides.

Easy to use, cost effective and portable, it simply plugs in to a power socket and is placed on the microscope stage. The stage warmer automatically calibrates and comes with a temperature validation slide.

**Accu-Beads® + Quality Control of Manual & CASA Sperm Counting**

Hamilton Thorne Accu-Beads+ consist of known concentrations of latex beads (3, 8 and 35 M/ml) suspended in a aqueous solution. Similar in size to human sperm, the Accu-Beads+ have been developed to confirm accurate counting procedures used for routine semen analysis.

For manual methods, Accu-Beads+ are used to evaluate the actual counting procedures practiced. When used in an automated semen analyser, they test and evaluate the optical and image acquisition system of the analyser.

Accu-Beads+ now have twice the shelf life - 2 years.

---

**P/Number** | **Description** |
--- | --- |
720230 | MiniTherm Stage Warmer - includes Temperature Calibration Slide |
720232 | Temperature Calibration Slide |

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**P/Number** | **Description** |
--- | --- |
710110 | Accu-Beads+ Dual Package, 18M/ml & 35M/ml (one 5ml vial each) |
710111 | Accu-Beads+ Triple Package, 3M/ml, 18M/ml & 35M/ml (one 5ml vial each) |
Sperm Analysis Essentials

Oosafe® 5ml Andrology Tubes

Sparmed Oosafe IVF tested plasticware is manufactured from medical grade USP VI-tested raw materials. Each lot is endotoxin, MEA and HSSA tested. CE marked in accordance to In Vitro Diagnostic (IVD) Medical Device Directive 98/79/EC.

A complete range of Oosafe IVF plasticware is also available.

Cryo Marker Pens

Vitromed V-MARKER pens can be used to write all necessary details on dishes, tubes and straws. Available in black, blue, red and green permanent ink.

- Fine point.
- Non-toxic and Xylene free.
- Non-smearing.
- Fast drying.
- Ordering info- Please choose up to any 4 colours.

Halosperm® Sperm DNA Fragmentation Test

Halotech Halosperm allows quick and easy measurement of Sperm DNA Fragmentation for semen quality evaluation. Sperm with intact DNA produce a dispersion halo while spermatozoa fragmented DNA will show no or partial dispersion that is easily counted manually using bright field microscopy, or automatic measurement using Hamilton Thorne DNA Fragmentation software with IVOS II and CEROS II CASA systems.
IVF Laboratory Disinfectants

Sparmed Oosafe disinfectants are MEA and HSSA tested, clinically proven for IVF laboratory use. For daily, weekly and deep cleaning, the Oosafe disinfectant range provides ultimate infection control from floor-to-wall.

- Alcohol free.
- 3 year shelf life even after opening.
- No nasty chlorine smell and no residue.

**Oosafe Incubator / Laminar Flow Hood Disinfectant**

Ready-to-use laboratory spray and large durable wipes for use in between procedures / daily cleaning. Compatible with metal, glass, plastic, benching and ultrasound probes. Contain anti-corrosive agents.

**Oosafe Floor & Surface Disinfectant**

A cleaning agent and disinfectant, provides superior efficacy against bacteria, viruses and fungi. Continuous disinfection for up to 7 days after application. Compatible with plastic, wood, rubber and glass. Highly concentrated (requires 1/50 dilution), a 2L bottle makes over 100L of cleaning agent.

**Oosafe Hand Disinfectant**

Safe disinfection in 30 seconds after application without releasing any VOC’s whilst keeping skin soft.

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**NEW Oosafe Medical Device Class IIa Disinfectant CE marked**

Oosafe Medical Device disinfectant is a ready to use solution - no need to wash or rinse after application, effective after 15 minutes. Each lot is MEA and HSSA tested.

**Material Compatibility:** CO₂ incubators, laminar flow hoods, metal, hi-Macs surfaces, glass and plastic.

**Features:** Transparent and odourless, ready-to-use, alcohol-free, non-VOC releasing and non-corrosive to metals.
Clinical Sperm Analysis

IVOS II Sperm Analyser

The gold standard in high throughput labs for fast, accurate, reliable and scientifically tested sperm analysis

- Built in optical system
- Automated heated stage
- Fluorescence option
- Automated morphology

CEROS II Sperm Analyser

CEROS II from Hamilton Thorne is a certified medical device for semen analysis using W.H.O. guidelines. For IVF and andrology labs where productivity is essential, CEROS II can analyse counts, concentrations and motility percentages in less than one minute!

- **Highly Accurate Counting** – advanced algorithm includes a new tail filter for excluding objects with no tails and improved non-progressive sperm analysis by detecting tail movements

- **Internal Quality Control** module plots a Levey-Jennings chart and uses Westgard rules to verify microscope calibration and allow precise monitoring of quality control material, such as the most popular Accu-Beads®+

- **Replicate Analysis** feature offers an automated method of comparing analyses from two aliquots of the same sample, allowing easy compliance and tracking to meet WHO recommendations.

- **DIMENSIONS Tygerberg Strict Morphology Software** provides an automated, objective and repeatable method of classifying sperm morphology. DIMENSIONS is the only strict morphology software package validated by Dr. T Kruger. Latest V3.0 software features include mid-piece detection and classification, improved acrosome measurement and tail tracking algorithm, and calculation of Teratozoospermic Index (TZI) and TZI Count.

- **DNA Fragmentation Software** objectively evaluates the level of DNA fragmentation of sperm smears prepared with the Halosperm®.

- **Remote Capture Station** provides the convenience of capturing and storing sperm motility videos at satellite facilities for future analysis at the main laboratory.

Call to arrange a demo of our CASA systems:
+44 (0) 1727 730 900
Oxidative stress occurs when the production of potentially destructive reactive oxygen species exceeds the body’s own natural antioxidant defenses, resulting in cellular damage.

The MiOXSYS test utilises electrochemical technology for the qualitative measurement (millivolts [mV]) of static Oxidation-Reduction Potential (sORP) in human semen. It is intended for professional use in conjunction with standard semen analysis parameters (ejaculate volume, total sperm, sperm concentration, total motility, progressive motility, and morphology) as an aid to assess semen quality.

**Highly Accurate**

High specificity 88% and PPV 97% in accordance with the latest edition of the WHO parameters for identification of normal and abnormal semen analysis. Accurate detection for better patient management and treatment goals related to fertility.

**Easy To Use**

Less than 1 minute hands on time, ensuring the most efficient use of staff time; use with fresh or frozen semen samples.

**Fast**

Results in as quickly as 5 minutes, so you can deliver same day results to your clinicians.
Transport Incubators

### Labotect Cell-Trans 4016

For secure, mobile and stationary preservation of specimens, culture and media.

- Ideal for Surgical sperm retrieval (SSR).
- No electric mains and CO\(_2\) connection required during transport.
- Temperature 37°C and 5% CO\(_2\).
- Optional heating blocks available.
- Parameters during transport without connection:

<table>
<thead>
<tr>
<th>Time</th>
<th>Temp</th>
<th>CO(_2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 min</td>
<td>37.0°C</td>
<td>5.0%</td>
</tr>
<tr>
<td>10 min</td>
<td>36.5°C</td>
<td>4.9%</td>
</tr>
<tr>
<td>30 min</td>
<td>35.3°C</td>
<td>4.8%</td>
</tr>
<tr>
<td>60 min</td>
<td>34.5°C</td>
<td>4.5%</td>
</tr>
</tbody>
</table>

Other heating blocks available.

### Labotect Thermo Cell Transporter 3018

Transport incubator for safe and versatile use. Compact design, 37°C factory aligned temperature, continuous operation with power supply or 12V car voltage and 5 hours with batteries.

- For use with 8 x round bottom 13 ml Falcon tubes.
- Heating time 22°C to 37°C ~1 hour.

### Labotect Blockthermostat

Designed to maintain the temperature of biological materials and samples especially in IVF-laboratories. An external controller allows the Blockthermostat to be very compact and space saving. The temperature is selectable between 27°C and 45°C with a high accuracy and homogeneous distribution inside the heating block.

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**P/Number** | **Description**
---|---
13867 | Cell-Trans 4016 (without heating blocks)
10264 | Heating Block - 22 x 5 ml and/or 38 x 13 ml Falcon tubes (can be mixed)
10277 | Heating Block - 25 x 25 ml or 26 ml Falcon tubes

**P/Number** | **Description**
---|---
13881 | Thermo Cell Transporter 3018 (Specify set temperature required)

**P/Number** | **Description**
---|---
10719 | Blockthermostat (no heating block)
13855 | Blockthermostat with 10264 Heating Block*
13896 | Blockthermostat with 10277 Heating Block*

* See Labotect Cell-Trans 4016 ordering table for information on heating blocks.
Labotect CO₂ C16 Incubator

Labotect’s small volume incubator is a compact, space saving unit with a 16 litre capacity, ideal for labs looking to optimise limited space environments. It creates a tightly controlled atmosphere with regard to the key parameters temperature, CO₂, O₂ and relative humidity. The C16 incubator’s highly stable temperature levels and gas concentration make it ideally suited for cultivating biological samples in research and medical applications.

Labotect InControl Gas/Temp Analyser

Labotect InControl 1050 is an Independent measuring device for control and evaluation for CO₂, temperature and O₂ measurement.

- Single or continuous measurement in arbitrary intervals.
- Measurement and documentation of multiple incubators.

Inline Gas Filters

For use in between incubators and gas sources to purify incoming CO₂, N₂ and premixed gas against VOCs, CACs, bacteria, odour, dust and more.

Oosafe Filters:
- Micro Carbon technology provides bigger active surface for unmatched VOC removal.
- HEPA and 0.22 micron PTFE membrane enables long term assurance against bacteria from entering the activated carbon inside the filter (ST Filter).

Labotect Filters:
- Activated carbon filter with polyethylene layer for dust-and particle-free filtration. Compact size for pressures up to 7 bar.
Parallabs also offer

✓ EmbryoScope™
✓ Incubators
✓ Lab QC Systems
✓ Nitrogen Generators
✓ Clinical Lasers & Imaging Systems
✓ ICSI Manipulators & Injectors
✓ IVF Plasticware
✓ Embryo Handling &
  Micromanipulation Pipettes
✓ Catheters & Puncture Needles
✓ Cryopreservation

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