ICSI Micropipettes
Quality hand crafted pipettes... because precision matters

Assisted Reproduction
Introducing a complete new range of ICSI micropipettes from Wallace®

At Wallace® we understand the importance of quality products in order to achieve maximum IVF success rates. This is why our new range of micropipettes are individually hand-crafted by highly trained technicians to the highest standards for optimum precision.

Quality Assured
All our micropipettes are manufactured to the highest degrees of tolerance and carry a full trace history of the materials, procedures, production and QA personnel involved in preparing each individual pipette.

Our new range includes:
• ICSI Injection Pipettes
• Holding Pipettes
• Embryo Biopsy
• Assisted Hatching (Zona Drilling and Partial Zona Dissection [PZD]) and Blastomere Biopsy Pipettes for pre-implantation genetic diagnosis (PGD)

Ease of Use
All of Wallace® ICSI micropipettes are contained in quality, easy to open packaging which allows both easy dispensing and the prevention of touching either end of the needle. Each type of micropipette is packaged in colour-coded safe cases for convenience.

Environmentally Friendly
The cases are designed with a green concept using minimal materials for conservation. By minimising the weight and size of the total package, less energy is used in transportation. The outer box, including labels, is fully recyclable too.

A Choice of ICSI Injection Pipette Tips
Wallace® offer three ranges of ICSI injection pipette tips to suit most clinical situations and personal clinical preferences.

• V-series - allows smooth control of sperm injection and cytoplasm suction, drawing less cytoplasm back to deliver better fertilisation and embryo development
• W-series - makes it easy to immobilise sperm with its less flexible stronger tip
• H-series - has a longer tip-to-elbow length allowing multiple sperm to be loaded and injected

Excellent Product Safety
Wallace® perform additional live laboratory in-house quality checks, post MEA testing, to ensure the highest range of product safety currently achievable for every batch made.

Mouse Embryo Assay Testing; MEA ≥ 80% of 2 cell mouse embryo to blastocysts.
LAL: Endotoxin < 0.5EU/device

Sterilisation
All our products are Gamma sterilised.

All our products are manufactured and certified against internationally recognised quality standards ISO9001:2008, ISO13485:2003 and the European Medical Directive 93/42/EEC, allowing our products to be CE Marked. We also manufacture in compliance with the current Good Manufacturing Practices issued by the United States Food and Drug Administration (FDA). All Quality System Approval Certificates are available upon request.
Wallace® ICSI Injection Pipettes are used to perform intracytoplasmic sperm injection (ICSI).

Wallace® offers three types of ICSI injection pipettes for our diverse customer requirements:

- **V Series**
  - Short taper
  - Long parallel wall section
  - Standard tip to elbow length (550 µm)
  - Smooth control of sperm injection and cytoplasm suction
  - Less cytoplasm draws back when breaking oocyte membrane
  - Better fertilisation and embryo development
  - Multiple sperm can be loaded and injected

- **W Series**
  - Short taper
  - No parallel wall
  - Standard tip to elbow length (550 µm)
  - Strong and less flexible tip, so easy in immobilising sperm
  - Most stiff pipette in our range

- **H Series**
  - Longer taper
  - No parallel wall
  - Longer tip to elbow length (750 µm)

**Wallace® Holding Pipettes** are used to hold an oocyte or an embryo in position during ICSI and other micromanipulation procedures.

There are two series and four sizes for selection. The classic series has an ID of 20µm and OD of 90µm, 100µm and 120µm. The ‘B’ series has an ID of 30µm and OD of 120µm and 130µm.

All our holding pipettes are supplied with tip angles ranging from 0°-45° and a tip to elbow length of 650µm.

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### Key Product Benefits

**Taper Styles**
- **V Series**
  - Short taper
  - Long parallel wall section
  - Standard tip to elbow length (550 µm)
  - Smooth control of sperm injection and cytoplasm suction
  - Less cytoplasm draws back when breaking oocyte membrane
  - Better fertilisation and embryo development
  - Multiple sperm can be loaded and injected

- **W Series**
  - Short taper
  - No parallel wall
  - Standard tip to elbow length (550 µm)
  - Strong and less flexible tip, so easy in immobilising sperm
  - Most stiff pipette in our range

- **H Series**
  - Longer taper
  - No parallel wall
  - Longer tip to elbow length (750 µm)
  - Multiple sperm can be loaded and injected
  - Smooth control of sperm injection
  - Less damage to oocyte
  - Better fertilisation and embryo development

### ICSI Injection Pipettes

#### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Outer Diameters (µm)</th>
<th>Inner Diameters (µm)</th>
<th>Tip Bend Angle Degreesº</th>
<th>Tip to Elbow Length</th>
<th>Tip Style*</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIC-45-30</td>
<td>4.5</td>
<td>30°</td>
<td>0.55 mm</td>
<td>Spiked tip</td>
<td></td>
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<tr>
<td>WIC-45W-30</td>
<td>4.5</td>
<td>30°</td>
<td>0.55 mm</td>
<td>Spiked tip</td>
<td></td>
</tr>
<tr>
<td>WIC-45-30L</td>
<td>4.5</td>
<td>30°</td>
<td>1.0 mm</td>
<td>Spiked tip</td>
<td></td>
</tr>
<tr>
<td>WIC-50W-20</td>
<td>5.0</td>
<td>20°</td>
<td>0.55 mm</td>
<td>Spiked tip</td>
<td></td>
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<tr>
<td>WIC-50-25</td>
<td>5.0</td>
<td>25°</td>
<td>0.55 mm</td>
<td>Spiked tip</td>
<td></td>
</tr>
<tr>
<td>WIC-50-30</td>
<td>5.0</td>
<td>30°</td>
<td>0.55 mm</td>
<td>Spiked tip</td>
<td></td>
</tr>
<tr>
<td>WIC-50-25L</td>
<td>5.0</td>
<td>25°</td>
<td>0.55 mm</td>
<td>Spiked tip</td>
<td></td>
</tr>
<tr>
<td>WIC-50-30L</td>
<td>5.0</td>
<td>30°</td>
<td>0.55 mm</td>
<td>Spiked tip</td>
<td></td>
</tr>
<tr>
<td>WIC-55W-25</td>
<td>5.5</td>
<td>25°</td>
<td>0.55 mm</td>
<td>Spiked tip</td>
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<tr>
<td>WIC-55-30</td>
<td>5.5</td>
<td>30°</td>
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<td>Spiked tip</td>
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<tr>
<td>WIC-55-25L</td>
<td>5.5</td>
<td>25°</td>
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<td>Spiked tip</td>
<td></td>
</tr>
<tr>
<td>WIC-55-30L</td>
<td>5.5</td>
<td>30°</td>
<td>0.55 mm</td>
<td>Spiked tip</td>
<td></td>
</tr>
</tbody>
</table>

* Non-spiked tips available, please view our extended ranges for all product types: www.wallace-icsi.com

### Holding Pipettes

#### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Outer Diameters (µm)</th>
<th>Inner Diameters (µm)</th>
<th>Tip Bend Angle Degreesº</th>
<th>Tip to Elbow Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHP-100-20</td>
<td>100</td>
<td>20</td>
<td>20°</td>
<td>0.65 mm</td>
</tr>
<tr>
<td>WHP-100-25</td>
<td>100</td>
<td>25°</td>
<td>0.65 mm</td>
<td></td>
</tr>
<tr>
<td>WHP-100-30</td>
<td>100</td>
<td>30°</td>
<td>0.65 mm</td>
<td></td>
</tr>
<tr>
<td>WHP-110-20</td>
<td>110</td>
<td>20</td>
<td>25°</td>
<td>0.65 mm</td>
</tr>
<tr>
<td>WHP-110-25</td>
<td>110</td>
<td>25°</td>
<td>0.65 mm</td>
<td></td>
</tr>
<tr>
<td>WHP-110-30</td>
<td>110</td>
<td>30°</td>
<td>0.65 mm</td>
<td></td>
</tr>
<tr>
<td>WHP-120B-30</td>
<td>120B</td>
<td>30°</td>
<td>0.65 mm</td>
<td></td>
</tr>
<tr>
<td>WHP-130B-30</td>
<td>130B</td>
<td>30°</td>
<td>0.65 mm</td>
<td></td>
</tr>
</tbody>
</table>

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Zona Drilling Pipettes

- **Wallace®** Zona Drilling Pipettes are used to apply acidic solution for creating a hole on the zona pellucida to enable assisted hatching and/or embryo biopsy.
- There are two sizes available for selection: ID 8-10µm and ID 10-12µm. These pipettes are designed with a slightly fire-polished tip.
- Our Zona Drilling Pipettes can be supplied with a tip ranging from 0-45° and a tip to elbow length of 550µm.

Partial Zona Dissection (PZD) Pipettes

- **Wallace®** PZD Pipettes are used to mechanically cut an opening on the zona pellucida of an oocyte to enable assisted hatching and/or embryo biopsy.
- The pipette is designed with a sharp tip and a strong taper section for easy control and precision manipulation.
- Partial Zona Dissection (PZD) Pipettes can be supplied with a tip ranging from 0-45° and a tip to elbow length of 550µm.

### Zona Drilling Pipettes

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Inner Diameters (µm)</th>
<th>Tip Bend Angle Degrees°</th>
<th>Tip to Elbow Length</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>WZD-10-30</td>
<td>10</td>
<td>30°</td>
<td>Tip to elbow length = 0.55 mm</td>
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</tr>
<tr>
<td>WZD-12-30</td>
<td>12</td>
<td>30°</td>
<td>Tip to elbow length = 0.55 mm</td>
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</tr>
<tr>
<td>WZD-100-30</td>
<td>10</td>
<td>30°</td>
<td>parallel wall section, Tip to elbow length = 0.55 mm</td>
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</tr>
<tr>
<td>WZD-120-30</td>
<td>12</td>
<td>30°</td>
<td>parallel wall section, Tip to elbow length = 0.55 mm</td>
<td>10</td>
</tr>
</tbody>
</table>

### Partial Zona Dissection (PZD) Pipettes

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Outer Diameters (µm)</th>
<th>Inner Diameters (µm)</th>
<th>Tip Bend Angle Degrees°</th>
<th>Tip to Elbow Length</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>WPG-30</td>
<td>n/a</td>
<td>n/a</td>
<td>30°</td>
<td>0.55 mm</td>
<td>10</td>
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</tbody>
</table>

### Polar Body Biopsy Pipettes

- **Wallace®** Polar Body Biopsy Pipettes are used to remove polar bodies from human oocytes and embryos for pre-implantation genetic diagnosis (PGD).
- There are three series available for selection: 15Z (flat tip), 15X (Bevelled tip) and 15S (spiked tip).
- All tips are fire polished to reduce damage to the cell membrane.
- Polar Body Biopsy Pipettes can be supplied with a tip ranging from 0-45° and a tip to elbow length of 550µm.

### Partial Zona Dissection (PZD) Pipettes

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Inner Diameters (µm)</th>
<th>Tip Bend Angle Degrees°</th>
<th>Tip to Elbow Length</th>
<th>Tip Style</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>WBB-30Z-30</td>
<td>30</td>
<td>30°</td>
<td>0.55 mm</td>
<td>Flat tip</td>
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</tr>
<tr>
<td>WBB-35Z-30</td>
<td>35</td>
<td>30°</td>
<td>0.55 mm</td>
<td>Flat tip</td>
<td>10</td>
</tr>
<tr>
<td>WBB-40Z-30</td>
<td>40</td>
<td>30°</td>
<td>0.55 mm</td>
<td>Flat tip</td>
<td>10</td>
</tr>
<tr>
<td>WBB-30X-30</td>
<td>30</td>
<td>30°</td>
<td>0.55 mm</td>
<td>Bevelled tip</td>
<td>10</td>
</tr>
<tr>
<td>WBB-35X-30</td>
<td>35</td>
<td>30°</td>
<td>0.55 mm</td>
<td>Bevelled tip</td>
<td>10</td>
</tr>
<tr>
<td>WBB-40X-30</td>
<td>40</td>
<td>30°</td>
<td>0.55 mm</td>
<td>Bevelled tip</td>
<td>10</td>
</tr>
</tbody>
</table>

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