Distribution
Cook sells directly to hospitals and physicians and also through selected firms; contact the offices listed below for sales and product information in your area.

COOK IRELAND LTD.
O’Halloran Road
National Technology Park
Limerick, IRELAND
Phone: +353 61 334440
Fax: +353 61 334441

COOK MEDICAL INCORPORATED
P.O. Box 4195
Bloomington, IN 47402-4195 U.S.A.
Phone: 812.339.2235
Fax: 800.554.8335

COOK (CANADA) INC.
111 Sandford Drive
Stouffville, Ontario L4A 7X5 CANADA
Phone: 905.640.7110
Fax: 905.640.6804

WILLIAM A. COOK AUSTRALIA PTY. LTD.
95 Brandl Street
Brisbane Technology Park
Eight Mile Plains
Brisbane, QLD 4113 AUSTRALIA
Phone: +61 7 3841 1188
Fax: +61 7 3841 1288

Cook Europe Shared Service Center

<table>
<thead>
<tr>
<th>Country</th>
<th>Telephone</th>
<th>E-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Austria</td>
<td>+43 1 795 67 121</td>
<td><a href="mailto:oeorders@cook.ie">oeorders@cook.ie</a></td>
</tr>
<tr>
<td>Belgium/French</td>
<td>+32 27 00 16 33</td>
<td><a href="mailto:beorders@cook.ie">beorders@cook.ie</a></td>
</tr>
<tr>
<td>Belgium/Flemish</td>
<td>+32 27 00 16 33</td>
<td><a href="mailto:nlorders@cook.ie">nlorders@cook.ie</a></td>
</tr>
<tr>
<td>Denmark</td>
<td>+45 38487607</td>
<td><a href="mailto:daorders@cook.ie">daorders@cook.ie</a></td>
</tr>
<tr>
<td>Distributors</td>
<td>+353 61 239240</td>
<td><a href="mailto:sscdistributors@cook.ie">sscdistributors@cook.ie</a></td>
</tr>
<tr>
<td>France</td>
<td>+33 1 71 23 02 69</td>
<td><a href="mailto:frorders@cook.ie">frorders@cook.ie</a></td>
</tr>
<tr>
<td>Germany</td>
<td>+49 6950 072804</td>
<td><a href="mailto:nlorders@cook.ie">nlorders@cook.ie</a></td>
</tr>
<tr>
<td>Italy</td>
<td>+39 02 69 68 28 53</td>
<td><a href="mailto:nlorders@cook.ie">nlorders@cook.ie</a></td>
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<tr>
<td>Netherlands</td>
<td>+31 202 013 367</td>
<td><a href="mailto:noorders@cook.ie">noorders@cook.ie</a></td>
</tr>
<tr>
<td>Norway</td>
<td>+47 23 16 2968</td>
<td><a href="mailto:noorders@cook.ie">noorders@cook.ie</a></td>
</tr>
<tr>
<td>Spain</td>
<td>+34 91 2702691</td>
<td><a href="mailto:esorders@cook.ie">esorders@cook.ie</a></td>
</tr>
<tr>
<td>Switzerland/French</td>
<td>+41 44 8 009 609</td>
<td><a href="mailto:frorders@cook.ie">frorders@cook.ie</a></td>
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<tr>
<td>Switzerland/Italian</td>
<td>+41 44 8 009 609</td>
<td><a href="mailto:itorders@cook.ie">itorders@cook.ie</a></td>
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<tr>
<td>Switzerland/German</td>
<td>+41 44 8 009 609</td>
<td><a href="mailto:deorders@cook.ie">deorders@cook.ie</a></td>
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<tr>
<td>Sweden</td>
<td>+46 85 876 94 68</td>
<td><a href="mailto:seorders@cook.ie">seorders@cook.ie</a></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>+44 20 7365 4183</td>
<td><a href="mailto:ukorders@cook.ie">ukorders@cook.ie</a></td>
</tr>
</tbody>
</table>

NOTE: A list of distributors for various countries is available upon request from the aforementioned companies.

Global Product Number
Every catalog item has both a standard order number and a 6 unit Global Product Number. Either of these numbers can be used for order placement.

INFORMATION KEY

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EO</td>
<td>Sterilized by ethylene oxide.</td>
</tr>
<tr>
<td>R</td>
<td>Sterilized by gamma irradiation.</td>
</tr>
<tr>
<td>ET</td>
<td>EchoTip® for enhanced visualization under ultrasound.</td>
</tr>
<tr>
<td>LAL</td>
<td>Endotoxin tested.</td>
</tr>
<tr>
<td>MEA</td>
<td>Mouse embryo assay.</td>
</tr>
<tr>
<td>L</td>
<td>CAUTION: This product contains natural rubber latex that may cause allergic reactions in some individuals.</td>
</tr>
</tbody>
</table>

MOUSE EMBRYO QUALITY CONTROL TESTING OF PRODUCT

Cook Medical is committed to providing the highest quality products available for all assisted reproduction procedures. Cook maintains stringent quality control over all manufacturing processes, from sourcing of raw materials to final release of finished products.

Some of the products in this catalog have been sterilized using ethylene oxide (EO) gas. Cook is cognizant of the risk posed by EO residuals in regard to embryo toxicity. However, Cook uses validated EO sterilization processes only. Following EO sterilization, products undergo several cycles of vacuum extraction of the gas followed by 24 hours in a specially designed hot aeration room. After this process, products are selected at random and tested by mouse embryo testing before being released into stock.

For over a decade, the mouse embryo assay (MEA) has been the recognized standard test for toxicity of ART products. Cook’s MEA test uses the time-proven protocol that involves testing products with mouse embryos. A minimum of 2% of each production lot of 50 items or more is subjected to an MEA. All products are held until they pass MEA testing, then released for sale.
In addition, Cook has developed a process that uses a combination of gas chromatography, mass spectrometry and HPLC to identify potential contaminants down to a parts per billion level in the raw materials used for manufacturing culture media.

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Part I: Intrauterine Insemination (IUI)

A comprehensive range of cost-effective IUI catheters that provide atraumatic placement. Each catheter is designed to provide easy cervical passage and to optimize the conception rate.

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Insemi-Form® Catheter

Used for the introduction of washed spermatozoa into the uterine cavity.

- The Insemi-Form Catheter is designed for difficult cases where uterine access is restricted by cervical or uterine anomalies.
- The malleable tip is easily formed to any desired curve.
- The compliant cannula adds stiffness and the catheter features sideport infusion.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Outer Sleeve Fr</th>
<th>Outer Sleeve Length cm</th>
<th>Malleable Tip Fr</th>
<th>Malleable Tip Length cm</th>
<th>Unit of Sale</th>
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<td>G18903</td>
<td>J-IFC-090017</td>
<td>9.0</td>
<td>12</td>
<td>6.0</td>
<td>5</td>
<td>box of 20</td>
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</table>
Part I: Intrauterine Insemination (IUI)

Soft-Pass™ Insemination Catheters

Used for the introduction of washed spermatozoa into the uterine cavity.

- The soft, flexible distal tip eases placement and promotes patient comfort.
- The more rigid proximal segment provides enhanced catheter control and positioning.

OUTER SLEEVE
6.8 French polyethylene

CATHETER TIP
4.4 French polyolefin

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Outer Sleeve Fr</th>
<th>Outer Sleeve Length cm</th>
<th>Catheter Tip Fr</th>
<th>Catheter Tip Length cm</th>
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<tbody>
<tr>
<td>One-Piece Insemination Catheter</td>
<td>G17912</td>
<td>J-SPI-068015</td>
<td>6.8</td>
<td>10</td>
<td>4.4</td>
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</tbody>
</table>

GUIDING CATHETER
6.8 French polyethylene 12 cm long

INNER CATHETER
4.4 French polyolefin 19 cm long

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Guiding Catheter Fr</th>
<th>Guiding Catheter Length cm</th>
<th>Inner Catheter Fr</th>
<th>Inner Catheter Length cm</th>
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<tr>
<td>Coaxial Insemination Catheter</td>
<td>G18190</td>
<td>J-SPI-068012-CX</td>
<td>6.8</td>
<td>12</td>
<td>4.4</td>
</tr>
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</table>
Shepard Intrauterine Insemination Sets

Used for the introduction of washed spermatozoa into the uterine cavity. The rigidity of the inner cannula facilitates introduction of the catheter through the internal cervical os and into the uterus.

- The soft, flexible distal tip eases placement and promotes patient comfort.
- The more rigid proximal segment provides enhanced catheter control and positioning.
- The adjustable positioner allows optimum placement of the catheter within the uterus.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Fr</th>
<th>Length cm</th>
<th>Unit of Sale</th>
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<td>J-IUIE-541009</td>
<td>5.4</td>
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<td>box of 20</td>
<td>curved tip; with inner stainless steel cannula</td>
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<tr>
<td>G16465</td>
<td>J-IUIE-542009</td>
<td>5.4</td>
<td>20</td>
<td>box of 20</td>
<td>curved tip; with inner stainless steel cannula</td>
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<tr>
<td>G16463</td>
<td>J-IUIE-542001</td>
<td>5.4</td>
<td>20</td>
<td>box of 20</td>
<td>curved tip; with inner stainless steel cannula</td>
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Modified Shepard Intrauterine Insemination Catheters

<table>
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<tr>
<th>Global Product Number</th>
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<td>G16469</td>
<td>J-IUIE-542031</td>
<td>5.4</td>
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<td>curved tip; without inner cannula</td>
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<tr>
<td>G16468</td>
<td>J-IUIE-542030</td>
<td>5.4</td>
<td>20</td>
<td>box of 20</td>
<td>straight tip; without inner cannula</td>
</tr>
</tbody>
</table>
Insemi-Cath®

Used for the introduction of washed spermatozoa into the uterine cavity.

- The Insemi-Cath has a flared proximal end designed to affix to a standard Luer slip syringe.
- Made from nontoxic materials.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Fr</th>
<th>Length cm</th>
<th>Unit of Sale</th>
<th>Description</th>
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<tr>
<td>G16707</td>
<td>J-IUIC-351300</td>
<td>3.5</td>
<td>13</td>
<td>box of 20</td>
<td>natural camber distal tip and open end, without positioner</td>
</tr>
<tr>
<td>G16786</td>
<td>J-IUIC-351304</td>
<td>3.5</td>
<td>13</td>
<td>box of 20</td>
<td>preset curved distal tip, open end and adjustable silicone positioner</td>
</tr>
<tr>
<td>G16961</td>
<td>J-IUIC-351341</td>
<td>3.5</td>
<td>13</td>
<td>box of 20</td>
<td>natural camber distal tip, closed end, notch and adjustable silicone positioner</td>
</tr>
</tbody>
</table>
Aspiracath™

Used for the aspiration of cervical mucus for the evaluation of infertility.

The integrated plunger provides additional rigidity, facilitating catheter placement.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Fr</th>
<th>Length cm</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G17270</td>
<td>J-ASP-092500</td>
<td>9.3</td>
<td>25</td>
<td>polyethylene</td>
</tr>
</tbody>
</table>
Part II: Ovum Collection

Ovum aspiration subjects the oocyte-cumulus complex (OCC) to a series of stressful events that have the potential to significantly compromise its viability. The following Cook Medical products have been designed to maintain optimal viability of the OCC, reduce patient trauma and simplify the procedure. Minimizing temperature and pH fluctuation is critical at this stage to ensure that subsequent processes, such as fertilization and cleavage, proceed normally.

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Ova-Stiff Ovum Aspiration Needles–A Bevel ............................ 19
Small Gage Ova-Stiff Ovum Aspiration Needles ....................... 20
Aspiration Needles ................................................................. 21
EchoTip® Cook® Double Lumen Ovum Aspiration Needles ........... 22
Immature Ovum Aspiration Needle ........................................... 23
It is important to consider the volume of follicular fluid in relation to the dead space in the ovum aspiration needle and aspiration line. To minimize trauma to the oocyte-cumulus complex, it is suggested that a continuous column of fluid within the aspiration needle be maintained. This helps prevent the oocyte-cumulus complex from sticking to the wall of the needle or aspiration line. In addition, air will travel faster than fluid through the aspiration lumen, and if air is introduced when oocytes are present within the needle, it is possible that the oocyte may be damaged. As a consequence, ovum aspiration technique should aim to minimize the introduction of air into the needle during aspiration.
Part II: Ovum Collection

Cook® Aspiration Unit™

Used to provide low-flow, regulated vacuum for general suction.

NOTE: Not intended for emergency airway clearing.

- The Cook Aspiration Unit is a precision-built regulated vacuum pump designed specifically for ovum aspiration.
- The Cook Aspiration Unit has a rapid suction response at the needle tip when the pedal is activated and is able to hold constant vacuum settings accurately for long periods.
- The vacuum pressure can be boosted to clear blockages in the ovum aspiration needle by activating the boost button on the front panel of the unit.
- Ultra-quiet, vibration-free operation. Volume-adjustable tone indicates when vacuum is applied.
- Easy-to-read LED display indicates vacuum.
- Pressure in mm Hg or kPa.
- Foot pedal allows hands-free operation.

Technical Data

<table>
<thead>
<tr>
<th>POWER SUPPLY</th>
<th>universal input 100-240 V AC, 50/60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>VACUUM</td>
<td>-10 to -500 mm Hg</td>
</tr>
<tr>
<td>DIMENSIONS</td>
<td>200 x 102 x 336 mm</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>approximately 3.2 kg</td>
</tr>
</tbody>
</table>

CALIBRATION OF FLOW RATES

The first step in IVF is to obtain quality oocytes. Calibrating the correct flow rate is the key to retrieving the maximum number of oocytes in optimal condition. The rate of flow through an aspiration needle and tubing is dependent upon the inner diameter of the needle, total length of the system and vacuum pressure according to Poiseuille’s law. To ensure an optimal recovery rate with minimal damage to the oocyte-cumulus complex and zona pellucida, flow rates of 20-25 mL/min are recommended. Calibration can be checked by aspirating water through the aspiration needle and adjusting the vacuum pressure to obtain the correct flow rate.

Use of a constant vacuum such as that provided by the Cook Aspiration Unit is recommended.

A hydrophobic filter is essential to prevent liquid contamination of the aspiration unit. These filters should be changed between cases. A selection of filters and connecting tubing is shown on page 16.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G49275</td>
<td>K-MAR-5200</td>
<td>includes Cook Aspiration Unit, connecting tube with hydrophobic filter and foot pedal actuator</td>
</tr>
</tbody>
</table>
Vacuum Lines & Filters

Hydrophobic filter lines used to connect ovum collection needles to Cook Aspiration Unit™ prevent contamination of vacuum pumps.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Disposable Vacuum Line &amp; Filter</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G38692 K-DVLF-240</td>
<td></td>
<td>hydrophobic filter and 240 cm long vacuum line connects to Cook Aspiration Unit’s vacuum pump and all Cook ovum collection needles</td>
</tr>
<tr>
<td><strong>Disposable Vacuum Line</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G26736 K-DVL-240</td>
<td></td>
<td>low-volume connecting tube, 240 cm long with Luer lock connectors</td>
</tr>
<tr>
<td><strong>Disposable Filters</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G26721 K-MAR-CTS-8-SO-S</td>
<td></td>
<td>hydrophobic filter only; connects to silicone tubing</td>
</tr>
<tr>
<td>G26727 K-MAR-CTS-8-SO-FLL</td>
<td></td>
<td>hydrophobic filter with female Luer lock connector attaches to K-DVL-240</td>
</tr>
<tr>
<td><strong>Disposable Lightweight Filter and Vacuum Tubing Set</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G18645 K-VLF-240-LL</td>
<td></td>
<td>disposable hydrophobic filter and 240 cm long lightweight vacuum line with Luer lock connector</td>
</tr>
<tr>
<td><strong>Disposable Filter and Vacuum Tubing Set</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G19124 K-MAR-CT-300-LL</td>
<td></td>
<td>disposable hydrophobic filter and 300 cm long vacuum line with Luer lock connector</td>
</tr>
<tr>
<td><strong>Disposable Polyethylene Connecting Tube</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G26134 K-PV14.0-180-P-M-0</td>
<td></td>
<td>14.0 Fr, 180 cm long with Luer lock connector; connects barbed adapter on vacuum pump to ovum collection needle</td>
</tr>
</tbody>
</table>
Test Tube Heater

Used to control the temperature of test tubes and their contents during oocyte recovery and minimize temperature-induced damage to the oocyte. Designed to accept up to 6 Falcon™ 2001 test tubes.

- Clear front panel allows continuous observation of test tube contents.
- Panel is easily removable for decontamination.
- Uses 12 V DC power for enhanced safety and portability.
- Power cord connects to alternative power supply (K-APS-300).
- Operating temperature is preset to 36.9°C or can be factory reset to meet individual requirements.
- Amber light signifies that unit is powered. When light flashes, unit is at optimal operating temperature.
- Short alarm sounds whenever power cable is connected or disconnected.
- Redundant temperature controller prevents overheating.
- Unit comes with polycarbonate table stand.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>G18226</td>
<td>K-FTH-1012</td>
<td>Test tube heater; accepts 6 Falcon 2001 test tubes and requires 12 V DC power supply</td>
</tr>
<tr>
<td>G49337</td>
<td>K-APS-300</td>
<td>medical-grade transformer to convert main power to 12 V DC, for use with Test Tube Heater (K-FTH-1012)</td>
</tr>
</tbody>
</table>

**NOTE:** K-FTH-1012 and K-APS-300 must be purchased together unless K-MAR-5100 is available as a power supply.

**Accessories**

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>G25977</td>
<td>K-FTH-1012-CP</td>
<td>replacement front panel for K-FTH-1012</td>
</tr>
<tr>
<td>G26044</td>
<td>K-FTHH-1000</td>
<td>Falcon Tube Heater Holder attaches to drip stand or similar.</td>
</tr>
</tbody>
</table>

*Falcon is a trademark of Becton, Dickinson and Company.*
Ova-Stiff™ Ovum Aspiration Needles—B Bevel

Used for ovum aspiration.

- Improved Chiba-type bevel (B bevel) grind creates the sharpest needle available to reduce patient discomfort.
- Larger ergonomic handle for greater comfort and improved control during use.
- Extra-stiff and extra-smooth needle cannula enables precise placement of the needle tip in follicle.
- EchoTip® enhances visualization of needle tip when used with ultrasonic imaging equipment.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>gage</th>
<th>Length cm</th>
<th>Aspiration Line cm</th>
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<tbody>
<tr>
<td>G30430</td>
<td>K-OSN-1630-B-60</td>
<td>16</td>
<td>30</td>
<td>60</td>
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<td>G30432</td>
<td>K-OSN-1635-B-60</td>
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<td>G29617</td>
<td>K-OSN-1635-B-90</td>
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<td>90</td>
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<td>G29618</td>
<td>K-OSN-1730-B-60</td>
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<td>30</td>
<td>60</td>
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<td>G29625</td>
<td>K-OSN-1735-B-60</td>
<td>17</td>
<td>35</td>
<td>60</td>
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<tr>
<td>G30460</td>
<td>K-OSN-1730-B-90</td>
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<td>30</td>
<td>90</td>
</tr>
<tr>
<td>G29626</td>
<td>K-OSN-1735-B-90</td>
<td>17</td>
<td>35</td>
<td>90</td>
</tr>
</tbody>
</table>
Ova-Stiff™ Ovum Aspiration Needles—A Bevel

Used for ovum aspiration.

- Slightly shorter bevel (A bevel) facilitates aspiration of small follicles.
- Larger ergonomic handle for greater comfort and improved control during use.
- Extra-stiff and extra-smooth needle cannula enables precise placement of the needle tip in follicle.
- EchoTip® enhances visualization of needle tip when used with ultrasonic imaging equipment.

### Global Product Number

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>gage</th>
<th>Length cm</th>
<th>Aspiration Line cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>G30429</td>
<td>K-OSN-1630-A-60</td>
<td>16</td>
<td>30</td>
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<tr>
<td>G30431</td>
<td>K-OSN-1635-A-60</td>
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<td>60</td>
</tr>
<tr>
<td>G30458</td>
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<td>90</td>
</tr>
<tr>
<td>G30459</td>
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<td>35</td>
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<tr>
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</tr>
<tr>
<td>G29620</td>
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<td>35</td>
<td>60</td>
</tr>
<tr>
<td>G32741</td>
<td>K-OSN-1730-A-90</td>
<td>17</td>
<td>30</td>
<td>90</td>
</tr>
<tr>
<td>G29624</td>
<td>K-OSN-1735-A-90</td>
<td>17</td>
<td>35</td>
<td>90</td>
</tr>
</tbody>
</table>
Small Gage Ova-Stiff™ Ovum Aspiration Needle

Used for laparoscopic or ultrasound-guided transvaginal aspiration of immature oocytes from the ovarian follicles. Smaller needle gages are suitable for immature ovum aspiration.

- Extra-stiff needle cannula for precise placement of tip in follicle.
- Standard RWH noncoring bevel prevents tissue from entering lumen.
- Translucent FEP vacuum line. Flushing is achieved by attaching the flushing cannula to a syringe and inserting the cannula into the flared end of the aspiration line at the silicone stopper.
- EchoTip® enhances visualization of needle tip when used with ultrasonic imaging equipment.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>gage</th>
<th>Length cm</th>
<th>Aspiration Line cm</th>
<th>Bevel</th>
<th>Handle Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>G20943</td>
<td>K-OPS-6035-RWH-B-ET</td>
<td>18</td>
<td>35</td>
<td>60</td>
<td>B</td>
<td>pink</td>
</tr>
<tr>
<td>G19715</td>
<td>K-OPS-6035-RWH-ET</td>
<td>18</td>
<td>35</td>
<td>60</td>
<td>RWH</td>
<td>pink</td>
</tr>
<tr>
<td>G26182</td>
<td>K-OPS-7030-RWH-ET</td>
<td>19</td>
<td>30</td>
<td>60</td>
<td>RWH</td>
<td>brown</td>
</tr>
<tr>
<td>G26638</td>
<td>K-OPS-7035-RWH-ET</td>
<td>19</td>
<td>35</td>
<td>60</td>
<td>RWH</td>
<td>brown</td>
</tr>
<tr>
<td>G26631</td>
<td>K-OPS-8035-RWH-ET</td>
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<td>35</td>
<td>60</td>
<td>RWH</td>
<td>yellow</td>
</tr>
<tr>
<td>G26056</td>
<td>K-OPS-8035-RWH-B-ET</td>
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<td>B</td>
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<tr>
<td>GS0735</td>
<td>K-OPS-2130*</td>
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<td>30</td>
<td>75</td>
<td>RWH</td>
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</tr>
<tr>
<td>GS0736</td>
<td>K-OPS-2135*</td>
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<td>35</td>
<td>75</td>
<td>RWH</td>
<td>green</td>
</tr>
</tbody>
</table>

*Fitted with 50 cm vacuum line
Aspiration Needles
Used for ovum aspiration.

- Single lumen aspiration needle with B bevel.
- Handle design assists rotation during aspiration. Thumb notch indicates bevel orientation.
- Luer lock proximal hub accepts syringes.
- EchoTip® enhances visualization of needle tip when used with ultrasonic imaging equipment.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>gage</th>
<th>Length cm</th>
<th>Handle Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>G20359</td>
<td>K-OPAA-1635</td>
<td>16</td>
<td>35</td>
<td>blue</td>
</tr>
<tr>
<td>G26633</td>
<td>K-OPAA-1725</td>
<td>17</td>
<td>25</td>
<td>red</td>
</tr>
<tr>
<td>G20377</td>
<td>K-OPAA-1730</td>
<td>17</td>
<td>30</td>
<td>red</td>
</tr>
<tr>
<td>G20538</td>
<td>K-OPAA-1735</td>
<td>17</td>
<td>35</td>
<td>red</td>
</tr>
<tr>
<td>G29611</td>
<td>K-OPAA-1830</td>
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</tr>
<tr>
<td>G26208</td>
<td>K-OPAA-1835</td>
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</tr>
<tr>
<td>G26209</td>
<td>K-OPAA-1935</td>
<td>19</td>
<td>35</td>
<td>brown</td>
</tr>
</tbody>
</table>
Part II: Ovum Collection

EchoTip® Cook® Double Lumen Ovum Aspiration Needles

Used for aspiration and flushing of oocytes from ovarian follicles.

- The double-lumen design allows simultaneous or intermittent flushing and aspiration.
- Echotip enhances visualization of needle tip when used with ultrasonic imaging equipment.
- The standard aspiration line is 75 cm long.

---

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Bevel</th>
<th>Flushing Line Length cm</th>
<th>Length cm</th>
<th>gage</th>
</tr>
</thead>
<tbody>
<tr>
<td>G30411</td>
<td>K-OPSD-1630-B-L</td>
<td>B</td>
<td>100</td>
<td>30</td>
<td>16</td>
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<tr>
<td>G32715</td>
<td>K-OPSD-1635-B-L</td>
<td>B</td>
<td>100</td>
<td>35</td>
<td>16</td>
</tr>
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<td>G30468</td>
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<td>17</td>
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<tr>
<td>G30466</td>
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<td>100</td>
<td>33</td>
<td>16</td>
</tr>
<tr>
<td>G30415</td>
<td>K-OPSD-1635-A-L</td>
<td>A</td>
<td>100</td>
<td>35</td>
<td>16</td>
</tr>
<tr>
<td>G30463</td>
<td>K-OPSD-1730-A-L</td>
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<td>G30461</td>
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<td>A</td>
<td>100</td>
<td>35</td>
<td>17</td>
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</tbody>
</table>
**Immature Ovum Aspiration Needle**

Used for laparoscopic or ultrasound-guided transvaginal aspiration of oocytes from small ovarian follicles. Smaller needle gages are also suitable for immature ovum aspiration.

- EchoTip® extends around the bevel, improving visibility and placement of the needle.
- 17 gage, 30 cm guide needle used to puncture vaginal wall, adding rigidity to the 20 gage, 35 cm aspiration needle.
- New stopper design accepts the tip of a Luer slip syringe, facilitating follicle flushing.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Guide Needle gage</th>
<th>Guide Needle Length cm</th>
<th>Aspiration Needle gage</th>
<th>Aspiration Needle Length cm</th>
<th>Aspiration Tubing Length cm</th>
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</thead>
<tbody>
<tr>
<td>G38609</td>
<td>K-OPS-2035-1730</td>
<td>17</td>
<td>30</td>
<td>20</td>
<td>35</td>
<td>60</td>
</tr>
</tbody>
</table>
Part III:
Gamete Intra-Fallopian Transfer (G.I.F.T.)/
Zygote Intra-Fallopian Transfer (Z.I.F.T.)

Designed for the tubal transfer of gametes, zygotes and embryos. Cook® G.I.F.T. sets simplify the cannulation of the fallopian tube.

Patton Laparoscopic G.I.F.T. Catheter Introducer Set ............ 26
Marrs Laparoscopic G.I.F.T. Catheters .......................... 27
Cook Laparoscopic Trocar & Cannula ............................ 28
Patton Laparoscopic G.I.F.T. Catheter Introducer Set
Used to transfer gametes into the fallopian tube under laparoscopic guidance.

- The distal tip curve of the introducing catheter or cannula facilitates positioning of the inner catheter.
- Distance markings on the proximal portion of the inner catheter indicate the position of its distal tip relative to that of the introducing catheter or cannula.

---

### Global Product Number

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G18024</td>
<td>K-J-PGS-652500</td>
<td>Set consists of the following:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16 gage, 25 cm Introducing Cannula (stainless steel)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6.3 Fr, 24.5 cm Introducing Catheter (TFE)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.5 Fr, 35 cm Inner Catheter (TFE)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12 gage, 18 cm Needle Cannula (stainless steel)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trocar Stylet (stainless steel)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Endoscopic Caps (silicone)</td>
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</table>
Marrs Laparoscopic G.I.F.T. Catheters

Used to transfer gametes into the fallopian tube under laparoscopic guidance.

Graduations on the distal portion of the delivery catheter assist placement.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Fr</th>
<th>Length cm</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G18022</td>
<td>K-J-MLC-503000</td>
<td>5.0</td>
<td>30</td>
<td>translucent TFE</td>
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<tr>
<td>G18023</td>
<td>K-J-MLC-505000</td>
<td>5.0</td>
<td>50</td>
<td>translucent TFE</td>
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</table>
Cook® Laparoscopic Trocar & Cannula

Used to puncture the abdominal wall under laparoscopic guidance. Facilitates the introduction of G.I.F.T. catheters and ovum aspiration needles.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Needle gage</th>
<th>Needle Length cm</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>G19804</td>
<td>K-SANT-1418</td>
<td>14</td>
<td>18</td>
<td>laparoscopic cannula and trocar with Luer lock fitting</td>
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</table>
Part IV: Micro-Manipulation

Cook® micro-manipulation tools hold a vital position in the ART of One® System. The process of oocyte and embryo manipulation requires tools that make these technical procedures accurate and repeatable. Though a minority of scientists may still prefer the time-consuming option of making their own pipettes for these procedures, Cook pipettes provide the opportunity for them to refocus their efforts on A.R.T. processes. Cook pipettes are handcrafted to the highest quality standards and are available in a wide variety of designs to meet the varying needs of laboratories worldwide.

Cook Flexipet® Pipettes .................................................. 30
Cook Flexipet Adjustable Handle ................................. 31
Cook Precision Micro-Injection Pipettes ....................... 32
Cook Precision Holding Pipettes ................................. 33
Cook Blastomere Aspiration Pipettes ........................... 34
Cook Polar Body Biopsy Pipette ................................. 35
Cook Zona Drilling Pipettes ........................................ 35
Cook Partial Zona Dissection Pipette ........................... 36
Cook Testicular Sperm Extraction Pipette .................... 36
Cook® Flexipet® Pipettes
Flexible polycarbonate pipettes used for denuding as well as gamete and embryo manipulation. Designed to resist breaking or scratching.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Inner Diameter μm</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Denuding Pipettes—5 Vials of 10 (50 Total)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G26711</td>
<td>K-FPIP-1130-1085-5</td>
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<td>oocyte/embryo manipulation</td>
</tr>
<tr>
<td>G26712</td>
<td>K-FPIP-1140-1085-5</td>
<td>140</td>
<td>oocyte/embryo manipulation</td>
</tr>
<tr>
<td>G26713</td>
<td>K-FPIP-1170-1085-5</td>
<td>170</td>
<td>oocyte/embryo manipulation</td>
</tr>
<tr>
<td>Manipulation Pipettes—1 Vial of 10 (10 Total)</td>
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<td></td>
<td></td>
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<tr>
<td>G18878</td>
<td>K-FPIP-1300-1085</td>
<td>300</td>
<td>blastocyst handling</td>
</tr>
<tr>
<td>Manipulation Pipettes—5 Vials of 10 (50 Total)</td>
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<td></td>
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<tr>
<td>G46020</td>
<td>K-FPIP-1300-1085-5</td>
<td>300</td>
<td>blastocyst handling</td>
</tr>
<tr>
<td>G26057</td>
<td>K-FPIP-1600-1085-5</td>
<td>600</td>
<td>manipulation of oocyte-cumulus complex</td>
</tr>
</tbody>
</table>
Cook® Flexipet® Adjustable Handle

Used with Cook Flexipet pipettes for handling gametes and embryos.

- Aspiration volume can be preset from 0.25 μL to 3.0 μL.
- Provides the fine control necessary for oocyte, embryo and/or blastomere manipulation.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>G18674</td>
<td>K-MPH-1000</td>
<td>adjustable handle accepts all sizes of Flexipet pipettes</td>
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</table>

Accessories

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G18904</td>
<td>K-FRO-1000</td>
<td>one small O-ring, one large O-ring, spacer and collet</td>
</tr>
</tbody>
</table>
Cook® Precision Micro-Injection Pipettes

Used for the intracytoplasmic single-sperm injection of oocytes.

Pipettes specifically designed for ICSI, with parallel walls for precision sperm control and well-defined bevels to aid zona pellucida puncture. These pipettes are supplied in two main groups: the Standard “1” and the Precision “3” series. The Precision “3” series pipettes have parallel walls to better control sperm movements, while a stiff, spiked tip facilitates easy insertion through the zona pellucida. A longer bevel length provides more precise injection.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Inner Diameter (μm)</th>
<th>Outer Diameter (μm)</th>
<th>Distal Tip Angle (°)</th>
<th>Unit of Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>G32813</td>
<td>K-MPIP-1020</td>
<td>5.0</td>
<td>7</td>
<td>20°</td>
<td>box of 10</td>
</tr>
<tr>
<td>G32814</td>
<td>K-MPIP-1030</td>
<td>5.0</td>
<td>7</td>
<td>30°</td>
<td>box of 10</td>
</tr>
<tr>
<td>G18090</td>
<td>K-MPIP-1035</td>
<td>5.0</td>
<td>7</td>
<td>35°</td>
<td>box of 10</td>
</tr>
<tr>
<td>G32821</td>
<td>K-MPIP-3330</td>
<td>5.5</td>
<td>7</td>
<td>30°</td>
<td>box of 10</td>
</tr>
<tr>
<td>G26684</td>
<td>K-MPIP-3335</td>
<td>5.5</td>
<td>7</td>
<td>35°</td>
<td>box of 10</td>
</tr>
</tbody>
</table>
Cook® Precision Holding Pipettes

Used to hold the oocyte in position by the application of vacuum when performing intracytoplasmic single-sperm injection or other micro-manipulation techniques.

The pipettes are flame polished. The “2” series has a slightly larger inner and outer diameter to improve the stability of the oocyte during ICSI procedures. The “3” series of holding pipettes has a larger inner and outer diameter to provide greater stability and holding power to embryos during procedures such as assisted hatching and biopsy.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Inner Diameter μm</th>
<th>Outer Diameter μm</th>
<th>Distal Tip Angle</th>
<th>Unit of Sale</th>
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</thead>
<tbody>
<tr>
<td>G32801</td>
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<td>15</td>
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<tr>
<td>G32802</td>
<td>K-HPIP-1035</td>
<td>15</td>
<td>75</td>
<td>35°</td>
<td>box of 10</td>
</tr>
<tr>
<td>G32806</td>
<td>K-HPIP-2130</td>
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<td>110</td>
<td>30°</td>
<td>box of 10</td>
</tr>
<tr>
<td>G32807</td>
<td>K-HPIP-2135</td>
<td>20</td>
<td>110</td>
<td>35°</td>
<td>box of 10</td>
</tr>
<tr>
<td>G32810</td>
<td>K-HPIP-3330</td>
<td>30</td>
<td>120</td>
<td>30°</td>
<td>box of 10</td>
</tr>
<tr>
<td>G32812</td>
<td>K-HPIP-3335</td>
<td>30</td>
<td>120</td>
<td>35°</td>
<td>box of 10</td>
</tr>
</tbody>
</table>
**Cook® Blastomere Aspiration Pipettes**

Used for the aspiration of blastomeres to diagnose genetic disorders prior to embryo selection.

The pipette tip is cut straight and flame polished smooth. Parallel walls facilitate smooth aspiration.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Inner Diameter μm</th>
<th>Outer Diameter μm</th>
<th>Distal Tip Angle</th>
<th>Unit of Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>G32795</td>
<td>K-EBPH-3035</td>
<td>30</td>
<td>42</td>
<td>35°</td>
<td>box of 10</td>
</tr>
<tr>
<td>G32799</td>
<td>K-EBPH-3535</td>
<td>35</td>
<td>49</td>
<td>35°</td>
<td>box of 10</td>
</tr>
</tbody>
</table>
Cook® Polar Body Biopsy Pipette

The pipette tip is beveled with a small spike to aid zona pellucida insertion.

- The pipette has parallel walls to facilitate smooth insertion and aspiration of polar body.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Inner Diameter μm</th>
<th>Outer Diameter μm</th>
<th>Distal Tip Angle</th>
<th>Unit of Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>G32822</td>
<td>K-PBBP-2035</td>
<td>20</td>
<td>28</td>
<td>35°</td>
<td>box of 10</td>
</tr>
</tbody>
</table>

Cook® Zona Drilling Pipettes

The pipette is designed to facilitate acid manipulation.

The pipette tip is beveled with a small spike to aid zona pellucida insertion.

- The pipette has parallel walls to facilitate smooth insertion and aspiration of polar body.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Inner Diameter μm</th>
<th>Outer Diameter μm</th>
<th>Distal Tip Angle</th>
<th>Unit of Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>G32790</td>
<td>K-AHP-1035</td>
<td>5</td>
<td>10</td>
<td>35°</td>
<td>box of 10</td>
</tr>
<tr>
<td>G32794</td>
<td>K-AHP-2035</td>
<td>10</td>
<td>14</td>
<td>35°</td>
<td>box of 10</td>
</tr>
</tbody>
</table>
**Cook® Partial Zona Dissection Pipette**

Used to create a slit or slits in the zona pellucida to enable assisted hatching and/or blastomere aspiration.

This pipette has a very fine point to create as smooth a cut as possible.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Distal Tip Angle</th>
<th>Unit of Sale</th>
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<tbody>
<tr>
<td>G18095</td>
<td>K-PZDP-1035</td>
<td>35°</td>
<td>box of 10</td>
</tr>
</tbody>
</table>

**Cook® Testicular Sperm Extraction Pipette**

Used to extract sperm from the testicular tissue sample prior to intracytoplasmic sperm injection (ICSI).

The inner diameter enables easy extraction of sperm from the tissue sample. The parallel walls facilitate smooth aspiration. A Cook Precision Micro-Injection Pipette is then used for the sperm injection.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Inner Diameter μm</th>
<th>Outer Diameter μm</th>
<th>Distal Tip Angle</th>
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<tr>
<td>G32823</td>
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<td>7</td>
<td>9</td>
<td>35°</td>
<td>box of 10</td>
</tr>
</tbody>
</table>
Part V: Embryo Culture

Science has yet to replicate the delicate balance and precision of the female reproductive tract. The new Cook® culture system is a family of products formulated to contribute the appropriate nutrients to match the gamete's and embryo's shifting metabolic requirements.
MINC Benchtop Incubator

- 24 hour digital recording of MINC temperature and gas flow.
- Time-stamped alarms include description of event.
- Graphical representation of data for rapid, comprehensive review.
- New standard of quality assurance.
- Ability for procedures to be improved based on complete, 24 hour data.

Constant temperature
- Heated chamber baseplate and lid provide a stable thermal environment for embryo culture.
- Embryos are directly exposed to a consistent temperature of 37°C.
- Rapid heat transfer provides faster recovery times than other incubators.

Rapid pH recovery maintains homeostasis
- The MINC design initiates an automatic gas purge when the lid is closed to reestablish the desired environment.
- pH returns to physiological range faster than other incubators.
- Embryonic stress is reduced by a rapid return to favorable culture conditions.

Improved laboratory efficiency
- The MINC uses minimal amounts of premixed gas to create and maintain a physiological culture environment.
- Compact size fits in the smallest labs, allowing increased cycle volume without an increase in lab space.
- Dual chambers fit an array of tissue culture dishes.
- Detachable whiteboards aid laboratory organization by designating embryo location within the MINC.
MINC Benchtop Incubator

Optimal embryo development depends upon the maintenance of temperature and pH. The MINC Benchtop Incubator is specifically designed to rapidly equilibrate temperature and pH, optimizing the culture environment. This reduces embryonic stress and improves viability.

### Technical Data

<table>
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<tr>
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<tr>
<td>G20079</td>
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<td>benchtop incubator includes 3 m connecting tubing.</td>
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<tr>
<td>G32707</td>
<td>K-MINC-CTS-S</td>
<td>disposable H2O humidification flasks supplied sterile in single packs</td>
</tr>
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<td>G26796</td>
<td>K-MINC-BCT-10-50</td>
<td>braided connecting hose for adding in-line carbon filters or connecting additional units: length 66 cm</td>
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<td>K-MINC-BCT-10-100</td>
<td>braided connecting hose for adding in-line carbon filters or connecting additional units: length 97 cm</td>
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<table>
<thead>
<tr>
<th>Dimension</th>
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<tbody>
<tr>
<td>Weight</td>
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</tr>
<tr>
<td>Gas Supply</td>
<td>high purity 6% CO2/5% O2/89% N2 mixture; nominal input pressure 150 kPa</td>
</tr>
<tr>
<td>Power</td>
<td>universal input 100-240 V AC, 50/60 Hz</td>
</tr>
<tr>
<td>Safety</td>
<td>designed to conform with AS3200.1, IEC60601.1 and IEC61010.1</td>
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Gamete Buffer

Adaptable-medium solution for all gamete procedures. Designed to be used specifically in atmospheric air conditions; not suitable for use in an enriched CO₂ environment such as a CO₂ incubator.

- Specifically designed HEPES buffer for the preparation of oocytes and sperm.
- Designed for swim-up, density-gradient separation and diluent procedure.
- Maintains a stable environment during washing of cumulus-enclosed oocytes.
- Can be used during ICSI for lengthy, difficult procedures.

**Constituents**
- Calcium lactate
- Calcium pantothenate
- D-Glucose
- Gentamicin
- Glutamine-stabilized
- Glycine
- HEPES
- Human serum albumin
- L-Alanine
- L-Asparagine
- L-Aspartic acid
- L-Glutamic acid
- L-Proline
- L-Serine
- L-Taurine
- Magnesium chloride
- Magnesium sulphate
- Potassium chloride
- Potassium phosphate
- Purified water
- Sodium chloride
- Sodium bicarbonate
- Sodium pyruvate

**Release Specifications**
- pH (in air): 7.3-7.5
- Osmolarity: 285-295 mOsm/kg
- MEA: ≥ 80%
- Endotoxins: < 0.4 EU/mL
- Shelf Life: 8 weeks from date of manufacture
- Sterile: Filtered (SAL 10⁻³)

**Usage**
After ovum pickup, this buffer is used to wash the oocyte cumulus complex prior to it being transferred into Fertilization Medium. It contains nonessential amino acids to prevent depletion of the oocyte’s internal pool of amino acids. Gamete Buffer is designed for swim-up and density-gradient separation of sperm. ICSI can also be performed in Gamete Buffer when a HEPES-buffered environment is required.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Volume mL</th>
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<tbody>
<tr>
<td>G48258</td>
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<td>G48259</td>
<td>K-SIGB-50</td>
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</tr>
<tr>
<td>G48260</td>
<td>K-SIGB-100</td>
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</table>
Part V: Embryo Culture

Sperm Medium

Used to separate motile populations of sperm using the swim-up technique.

- A bicarbonate-based buffer for sperm preparation and storage.
- Optimal medium for swim-up and sperm washing in 6% CO₂.

**Constituents**
- Calcium lactate
- D-Glucose
- Gentamicin
- Glutamine-stabilized
- Glycine
- Human serum albumin
- L-Taurine
- Magnesium sulphate
- Potassium chloride
- Potassium phosphate
- Purified water
- Sodium chloride
- Sodium bicarbonate
- Sodium pyruvate

**Release Specifications**
- **pH (air)**: 7.5–7.8
- **Osmolality**: 285–295 mOsm/kg
- **MEA**: ≥ 80%
- **Endotoxins**: < 0.4 EU/mL
- **Shelf Life**: 8 weeks from date of manufacture
- **Sterile**: Filtered (SAL 10⁻³)

* **pH equilibrated with 6% CO₂**: 7.3–7.5

**Global Product Number**
- **G20714**: K-SISM-20
- **G20715**: K-SISM-50
- **G19017**: K-SISM-100

**Volume**
- **20 mL**
- **50 mL**
- **100 mL**

**Usage**

This medium should be equilibrated to 37°C with 6% CO₂ before use. It is designed to separate motile populations of sperm using the swim-up technique. Both intrauterine and in vitro insemination can be performed in this medium or sperm can be resuspended in Fertilization Medium prior to the insemination of oocytes in vitro.
Sperm Gradient Kits

Used for sperm preparation using density-gradient separation.

- Convenient, two-part kit to separate motile sperm.
- Silane-coated silica in Gamete Buffer.
- Packaged in a kit with two vials, one of 40% and one of 80% density.

**Constituents**
- Calcium lactate
- D-Glucose
- Gentamicin
- Glutamine-stabilized Glycine
- HEPES
- Human serum albumin
- L-Taurine
- Magnesium sulphate
- Potassium chloride
- Potassium phosphate
- Purified water
- Silane-coated silica particles
- Sodium chloride
- Sodium bicarbonate
- Sodium pyruvate

**Release Specifications**
- pH (in air): 7.3-7.5
- Osmolarity: 285-295 mOsm/kg
- MEA: ≥ 80%
- Endotoxins: < 0.4 EU/mL
- Shelf Life: 12 weeks from date of manufacture
- Sterile: Filtered (SAL 10-3)

**Usage**

The gradients are prepared by placing 1.5 mL of 80% solution under 1.5 mL of 40% solution in a conical bottom test tube. The liquefied semen is then overlaid on top of the gradient. The tube is centrifuged and the resultant pellet is aspirated and washed in either Gamete Buffer or Sperm Medium. The final pellet is re-suspended in either Sperm Medium or Fertilization Medium.

**Global Product Number**

<table>
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</tr>
<tr>
<td>G19015</td>
<td>K-SISG-50</td>
<td>2 x 50</td>
</tr>
</tbody>
</table>
Spermient®
Used for sperm preparation using density-gradient separation.

- 100% concentration enables customization of sperm motility techniques.
- A silane-coated, silica-based stock solution that can be diluted to any required concentration using Gamete Buffer.

Constituents
Calcium lactate  
D-Glucose  
Gentamicin  
Glutamine-stabilized  
Glycine  
HEPES  
Human serum albumin  
L-Taurine  
Magnesium sulphate  
Potassium chloride  
Potassium phosphate  
Purified water  
Silane coated silica particles  
Sodium chloride  
Sodium bicarbonate  
Sodium pyruvate

Release Specifications
pH (in air): 7.3-7.5  
Osmolarity: 285-295 mOsm/kg  
MEA: ≥ 80%  
Endotoxins: < 0.4 EU/mL  
Shelf Life: 12 weeks from date of manufacture  
Sterile: Filtered (SAL 10^3)

<table>
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<tr>
<td>G30445</td>
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</table>

Usage
The 100% stock solution should be diluted with Gamete Buffer to the density required for use (for example 80% and 40%). A one- or two-layer gradient is then prepared in a conical bottom tube. The liquefied semen is overlaid on top of the gradient. The tube is centrifuged and the resultant pellet is aspirated and washed in either Gamete Buffer or Sperm Medium. The final pellet is resuspended in either Sperm Medium or Fertilization Medium.
**Sperm Cryopreservation Buffer**

Used for cryopreservation of human spermatozoa.

- Delivers a simple and effective way of preserving male fertility.
- Achieves cryopreservation of washed sperm using a HEPES-buffered solution that utilizes glycerol as a cryoprotectant.
- Suitable for MESA and TESA samples.

**Constituents**
Calcium lactate  
D-Glucose  
HEPES  
Glycine  
Gentamicin  
Glycerol  
Human serum albumin  
Magnesium sulphate  
Potassium chloride  
Purified water  
Sodium chloride  
Sodium phosphate  
Sodium bicarbonate  
Sucrose

**Release Specifications**
- pH (in air): 7.3–7.5
- Osmolarity: 1190-1210 mOsm/kg
- MEA: ≥ 80%
- Endotoxins: < 0.4 EU/mL
- Shelf Life: 8 weeks from date of manufacture
- Sterile: Filtered (SAL 10⁻³)

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Volume mL</th>
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</thead>
<tbody>
<tr>
<td>G32753</td>
<td>K-SISC-20</td>
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</table>

**Usage**
This buffer is suitable for freezing washed spermatozoa, including MESA and TESA samples.
**Follicle Flush Buffer**

Used for follicle flushing during ovum collection.

- Uses a HEPES-buffered solution designed specifically for flushing ovarian follicles during oocyte collection.
- Suitable for flushing needles and lines.
- Contains nonessential amino acids, allowing the addition of heparin.

### Constituents

- Calcium lactate
- D-Glucose
- Gentamicin
- Glutamine-stabilized
- Glycine
- HEPES
- L-Alanine
- L-Aspartic acid
- L-Asparagine
- L-Glutamic acid
- L-Proline
- L-Serine
- L-Taurine
- Magnesium sulphate
- Potassium chloride
- Potassium phosphate
- Purified water
- Sodium chloride
- Sodium bicarbonate
- Sodium pyruvate

### Release Specifications

- **pH (in air):** 7.3-7.5
- **Osmolarity:** 285-295 mOsm/kg
- **MEA:** ≥ 80%
- **Endotoxins:** < 0.4 EU/mL
- **Shelf Life:** 8 weeks from date of manufacture
- **Sterile:** Filtered (SAL 10³)

### Usage

This buffer is used for flushing follicles at ovum pickup. It contains nonessential amino acids to assist the maintenance of homeostasis within the oocyte and cumulus complex during the pickup procedure. As it is HEPES buffered, it maintains pH at 37°C without a CO₂ incubator.

### Global Product Number

<table>
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<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Volume mL</th>
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<tbody>
<tr>
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</table>
Part V: Embryo Culture

Oocyte Freeze Kit*

Used for the cryopreservation of human oocytes.

- A simple, effective way of preserving female fertility.
- HEPES-buffered cryopreservation system for freezing MII oocytes.
- Simple, three-step freeze process.

**Constituents**
- Calcium lactate
- Calcium pantothenate
- D-Glucose
- EDTA
- Gentamicin
- Glutamine-stabilized
- Glycine
- HEPES
- Human serum albumin
- L-Alanine
- L-Asparagine
- L-Aspartic acid
- L-Glutamic acid
- L-Proline
- L-Serine
- L-Taurine
- Magnesium chloride
- Magnesium sulphate
- Potassium chloride
- Potassium phosphate
- Propanediol
- Purified water
- Sodium chloride
- Sodium bicarbonate
- Sodium pyruvate
- Sucrose

**Release Specifications**
- pH (in air): 7.3-7.5
- Osmolarity: 285-295 mOsm/kg
- MEA: ≥ 80%
- Endotoxins: < 0.4 EU/mL
- Shelf Life: 8 weeks from date of manufacture
- Sterile: Filtered (SAL 10⁻³)

**Global Product Number**
- G38571

**Order Number**
- K-OCF-5000

**Volume**
- 3 x 20 mL

**Usage**

The kit is used to cryopreserve MII oocytes. The denuded oocytes are equilibrated by a three-step method, each step of which contains increasing concentrations of cryoprotectants. Unlike traditional PBS systems, the HEPES-based salt solution maintains a stable pH at low temperatures.

* Not currently on the Australian register of therapeutic goods and not currently available in the U.S. Please contact your local representative for updated information.
**Oocyte Thaw Kit***

Used for thawing and rehydrating cryopreserved human MII oocytes.

- HEPES-buffered cryopreservation system for thawing MII oocytes.
- Simple, four-step thaw process.

### Constituents
- Calcium lactate
- Calcium pantothenate
- D-Glucose
- EDTA
- Gentamicin
- Glutamine-stabilized Glycine
- HEPES
- Human serum albumin
- L-Alanine
- L-Asparagine
- L-Aspartic acid
- L-Glutamic acid
- L-Proline
- L-Serine
- L-Taurine
- Magnesium chloride
- Magnesium sulphate
- Potassium chloride
- Potassium phosphate
- Propanediol
- Purified water
- Sodium chloride
- Sodium bicarbonate
- Sodium pyruvate
- Sucrose

### Release Specifications
- pH (in air): 7.3-7.5
- Osmolarity: 285-295 mOsm/kg
- MEA: ≥ 80%
- Endotoxins: < 0.4 EU/mL
- Shelf Life: 8 weeks from date of manufacture
- Sterile: Filtered (SAL 10⁻³)

### Global Product Number

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</table>

### Usage

The kit is used for the thawing of MII oocytes. The oocytes are thawed to room temperature and rehydrated by a four-step method, each step of which contains decreasing concentrations of cryoprotectants. Thawed oocytes are inseminated using ICSI.

* Not currently on the Australian register of therapeutic goods and not currently available in the U.S. Please contact your local representative for updated information.
Part V: Embryo Culture

Fertilization Medium

Used to provide a suitable environment for both sperm and oocytes during the fertilization process.

- A bicarbonate-buffered medium for both short and long insemination protocols.
- Provides a glucose-rich environment for efficient cumulus-oocyte complex and sperm cell metabolism.
- Provides an optimized environment for gamete fusion that includes antioxidants and nonessential amino acids.

**Constituents**
- Calcium lactate
- Calcium pantothenate
- D-Glucose
- EDTA
- Gentamicin
- Glutamine-stabilized
- Glycine
- Human serum albumin
- L-Alanine
- L-Asparagine
- L-Aspartic acid
- L-Glutamic acid
- L-Proline
- L-Serine
- L-Taurine
- Magnesium chloride
- Magnesium sulphate
- Potassium chloride
- Potassium phosphate
- Purified water
- Sodium chloride
- Sodium bicarbonate
- Sodium pyruvate

**Release Specifications**
- pH (in air)*: 7.5–7.8
- Osmolarity: 285–295 mOsm/kg
- MEA: ≥ 80%
- Endotoxins: < 0.4 EU/mL
- Shelf Life: 8 weeks from date of manufacture
- Sterile: Filtered (SAL 10⁻³)

* pH equilibrated with 6% CO₂: 7.3–7.5

<table>
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<th>Global Product Number</th>
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<th>Volume mL</th>
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</tr>
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<td>G19019</td>
<td>K-SIFM-100</td>
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</table>

**Usage**

This medium has been designed to provide a suitable environment for both sperm and oocytes during the fertilization process. After the oocyte-cumulus complex has been washed, it is placed in Fertilization Medium, where insemination occurs. This medium contains glucose to assist sperm function and provides a metabolite for the cumulus and coronal cells. The oocyte can remain in this medium for up to 20 hours. After checking for the presence of pronuclei, fertilized oocytes are then transferred into Cleavage Medium. This is the first step in the Cook® sequential system.
Culture Oil

Used for micro-droplet culture from fertilization to the blastocyst or as an overlay to any culture medium.

- High-quality, extensively washed culture oil specifically designed for human IVF.
- Reduces osmotic stress caused by evaporation.
- Helps maintain pH stability.

**Constituents**
Mineral oil (washed with Cleavage Medium)

**Release Specifications**
- MEA: ≥ 80%
- Endotoxins: < 0.4 EU/mL
- Shelf Life: 12 weeks from date of manufacture
- Sterile: Filtered (SAL 10⁻³)

**Global Product Number** | **Order Number** | **Volume mL**
--- | --- | ---
G32717 K-SICO-50 | | 50
G26708 K-SICO-200 | | 200

**Usage**
Culture Oil is designed for micro-droplet culture from fertilization to the blastocyst or as an overlay to any culture medium. Culture Oil can be used while performing ICSI, assisted hatching and embryo biopsy.
Hyaluronidase*

Used for human oocyte cumulus cell removal.

- A pharmaceutical-grade enzyme that removes cumulus cells prior to ICSI.
- A bicarbonate-buffered medium containing 80 IU of Hyaluronidase for safety and consistency.

**Constituents**
Calcium lactate
Calcium pantothenate
D-Glucose
EDTA
Gentamicin
Glutamine-stabilized Glycine
Hyaluronidase
Human serum albumin
L-Alanine
L-Asparagine
L-Aspartic acid
L-Glutamic acid
L-Proline
L-Serine
L-Taurine
Magnesium chloride
Magnesium sulphate
Potassium chloride
Potassium phosphate
Purified water
Sodium chloride
Sodium bicarbonate
Sodium pyruvate

**Release Specifications**

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</table>

**Usage**
The product should be equilibrated in 6% CO₂ prior to use. The oocyte-cumulus complexes should be placed in the Hyaluronidase for approximately one minute. The cumulus and coronal cells can then be gently denuded from the oocyte using Flexipet® pipettes.

* Not currently on the Australian register of therapeutic goods. Please contact your local representative for updated information.
PVP

Used to reduce human sperm motility during ICSI.

Reduces motility with a bicarbonate-buffered medium containing 10% polyvinylpyrrolidine.

**Constituents**
- Calcium lactate
- D-Glucose
- Gentamicin
- Glutamine-stabilized
- Glycine
- Human serum albumin
- L-Taurine
- Magnesium sulphate
- Potassium chloride
- Potassium phosphate
- PVP (MW 360,000)
- Purified water
- Sodium chloride
- Sodium bicarbonate
- Sodium pyruvate

**Release Specifications**
- pH (in air)*: 7.5–7.8
- Osmolarity: 285–295 mOsm/kg
- MEA: ≥ 80%
- Endotoxins: < 0.4 EU/mL
- Shelf Life: 1 year if stored at -20°C upon receipt
- Sterile: Filtered (SAL 10–3)

* pH equilibrated with 6% CO₂; 7.3–7.5

**Global Product Number**
- G26774

**Order Number**
- K-SIPV-200-5

**Volume**
- 5 x 200 μL

**Usage**
The product should be equilibrated in 6% CO₂ prior to use. This solution is used to reduce the motility of sperm to make it easier to isolate them with an ICSI pipette. (Please refer to the Suggested Laboratory Protocols for more details on setting up ICSI dishes.)
Cleavage Medium
Used for human embryo culture from Day 1 to Day 3.

- A bicarbonate-buffered medium for the specific development of zygotes to eight-cell embryos.
- Low in glucose and high in pyruvate to optimize early cleavage stage development.
- Recommended for ICSI procedures to reduce oocyte stress as cumulus cell metabolism and sperm cell movement are no longer critical.

Constituents
Calcium lactate
Calcium pantothenate
D-Glucose
EDTA
Gentamicin
Glutamine-stabilized
Glycine
Human serum albumin
L-Alanine
L-Arginine
L-Asparagine monohydrate
L-Aspartic acid
L-Cystine
L-Glutamic acid
L-Histidine
L-Isoleucine
L-Leucine
L-Lysine
L-Methionine
L-Proline
L-Phenylalanine
L-Serine
L-Taurine
L-Threonine
L-Tyrosine
L-Tryptophan
L-Valine
Magnesium chloride
Magnesium sulphate
Potassium chloride
Potassium phosphate
Purified water
Sodium chloride
Sodium bicarbonate
Sodium pyruvate

Release Specifications
pH (in air)*: 7.5-7.8
Osmolarity: 285-295 mOsm/kg
MEA: ≥ 80%
Endotoxins: < 0.4 EU/mL
Shelf Life: 8 weeks from date of manufacture
Sterile: Filtered (SAL 10⁻³)

Usage
After normally fertilized oocytes are identified, they are transferred into Cleavage Medium for culture from Day 1 to Day 3 (up to eight-cell stage). From there they are transferred into Blastocyst Medium. Cleavage Medium has been formulated to provide early embryos with the necessary metabolic substrates for development and is the second step in the Cook® sequential system. ICSI can be performed in this medium, as glucose is only required for sperm function and the cumulus complex.

<table>
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<td>G20721 K-SICM-50</td>
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<tr>
<td>G19018 K-SICM-100</td>
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</table>
Cryopreservation Kit

Used to protect human cleavage-stage embryos during dehydration and freezing.

- A HEPES-buffered, simple three-step kit, using propanediol and sucrose.
- Maintains constant pH at below-freezing temperatures.
- Suitable for all stages, from zygotes to compacted morulae.

**Constituents**

- Calcium lactate
- Calcium pantothenate
- D-Glucose
- EDTA
- Gentamicin
- Glutamine-stabilized
- Glycine
- HEPES
- Human serum albumin
- L-Alanine
- L-Asparagine monohydrate
- L-Aspartic acid
- L-Glutamic acid
- L-Proline
- L-Serine
- L-Taurine
- Magnesium chloride
- Magnesium sulphate
- Potassium chloride
- Potassium phosphate
- Propanediol
- Purified water
- Sodium chloride
- Sodium bicarbonate
- Sodium pyruvate
- Sucrose

**Release Specifications**

- pH (in air): 7.3-7.5
- Osmolarity: 285-295 mOsm/kg
- MEA: ≥ 80%
- Endotoxins: < 0.4 EU/mL
- Shelf Life: 8 weeks from date of manufacture
- Sterile: Filtered (SAL 10⁻³)

**Usage**

The kit is used to cryopreserve early-stage embryos from 2PN to morula. The embryos are equilibrated through three steps that contain increasing concentrations of cryoprotectants. Unlike traditional PBS systems, the HEPES-based Cryopreservation Buffer maintains a stable pH at low temperatures.
Embryo Biopsy Medium

Used to facilitate the aspiration of blastomeres for preimplantation genetic diagnosis.

**Constituents**
- EDTA
- Gentamicin
- Glutamine-stabilized
- Glycine
- Human serum albumin
- L-Alanine
- L-Asparagine
- L-Aspartic acid
- L-Glutamic acid
- L-Proline
- L-Serine
- L-Taurine
- Potassium chloride
- Potassium phosphate
- Purified water
- Sodium chloride
- Sodium bicarbonate
- Sodium pyruvate

**Release Specifications**
- pH (in air)*: 7.5–7.8
- Osmolarity: 285–295 mOsm/kg
- MEA: ≥ 80%
- Endotoxins: < 0.4 EU/mL
- Shelf Life: 8 weeks from date of manufacture
- Sterile: Filtered (SAL 10-3)

* pH equilibrated with 6% CO₂: 7.3–7.5

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Volume ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>G26120</td>
<td>K-SIEB-20</td>
<td>20</td>
</tr>
</tbody>
</table>

**Usage**

This medium requires equilibration in a 6% CO₂ environment. Embryos are placed in this medium for approximately five minutes to break down gap junctions between blastomeres. One or two blastomeres are removed, and the embryo is then returned to Cleavage Medium or Blastocyst Medium for further culture.
Thawing Kit

Used to protect human cleavage-stage embryos during thawing and rehydration stages.

- A HEPES-buffered, four-step kit.
- Formulated to match cryopreservation kit, ensuring reduction of embryo stress.

### Constituents
- Calcium lactate
- Calcium pantothenate
- D-Glucose
- EDTA
- Gentamicin
- Glutamine-stabilized
- Glycine
- HEPES
- Human serum albumin
- L-Alanine
- L-Asparagine monohydrate
- L-Aspartic acid
- L-Glutamic acid
- L-Proline
- L-Serine
- L-Taurine
- Magnesium chloride
- Magnesium sulphate
- Potassium chloride
- Potassium phosphate
- Propanediol
- Purified water
- Sodium chloride
- Sodium bicarbonate
- Sodium pyruvate
- Sucrose

### Release Specifications
- pH (in air): 7.3-7.5
- Osmolarity: 285-295 mOsm/kg
- MEA: ≥ 80%
- Endotoxins: < 0.4 EU/mL
- Shelf Life: 8 weeks from date of manufacture
- Sterile: Filtered (SAL $10^{3}$)

### Usage
The embryos are moved through a four-step dilution system. The low glucose, phosphate-free kit provides a protective environment from the stresses of cryopreservation.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Volume mL</th>
</tr>
</thead>
<tbody>
<tr>
<td>G19014</td>
<td>K-SITS-5000</td>
<td>4 x 10</td>
</tr>
</tbody>
</table>
Part V: Embryo Culture

**Blastocyst Medium**

Used for culture of human embryos from Day 3 to Day 5.

Optimizes blastulation, differentiation and expansion.

- A bicarbonate-buffered medium with an increased glucose concentration to maximize blastocyst metabolism and energy production.
- Includes essential and nonessential amino acids for improved blastocyst development.
- Ideal for use in a low-oxygen environment that replicates the human reproductive tract.

**Constituents**

- Calcium lactate
- Calcium pantothenate
- D-Glucose
- Gentamicin
- Glutamine-stabilized
- Glycine
- Human serum albumin
- L-Alanine
- L-Arginine
- L-Aspartic acid
- L-Asparagine
- L-Cystine
- L-Glutamic acid
- L-Histidine
- L-Isoleucine
- L-Lysine
- L-Leucine
- L-Methionine
- L-Phenylalanine
- L-Proline
- L-Serine
- L-Taurine
- L-Threonine
- L-Tyrosine
- L-Tryptophan
- L-Valine
- Magnesium chloride
- Magnesium sulphate
- Potassium chloride
- Potassium phosphate
- Purified water
- Sodium chloride
- Sodium bicarbonate
- Sodium pyruvate

**Release Specifications**

- pH (in air)*: 7.5–7.8
- Osmolarity: 280–290 mOsm/kg
- MEA: ≥ 80%
- Endotoxins: < 0.4 EU/mL
- Shelf Life: 8 weeks from date of manufacture
- Sterile: Filtered (SAL 10−3)

* pH equilibrated with 6% CO₂; 7.3–7.5

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Volume mL</th>
</tr>
</thead>
<tbody>
<tr>
<td>G20722</td>
<td>K-SIBM-20</td>
<td>20</td>
</tr>
<tr>
<td>G20929</td>
<td>K-SIBM-50</td>
<td>50</td>
</tr>
</tbody>
</table>
Blastocyst Cryopreservation Kit

Used to protect human blastocysts during dehydration and freezing.

Facilitates long-term blastocyst storage.

- Uses a HEPES-buffered kit containing glycerol and sucrose as cryoprotectants.
- Optimizes a simple, three-step freezing process.

Constituents

<table>
<thead>
<tr>
<th>Calcium lactate</th>
<th>Calcium pantothenate</th>
<th>D-Glucose</th>
<th>EDTA</th>
<th>Gentamicin</th>
<th>Glutamine-stabilized</th>
<th>Glycerol</th>
<th>Glycine</th>
<th>HEPES</th>
<th>Human serum albumin</th>
<th>Sodium chloride</th>
<th>L-Alanine</th>
<th>L-Asparagine</th>
<th>L-Aspartic acid</th>
<th>L-Glutamic acid</th>
<th>L-Proline</th>
<th>L-Serine</th>
<th>L-Taurine</th>
<th>Magnesium chloride</th>
<th>Magnesium sulphate</th>
<th>Potassium chloride</th>
<th>Potassium phosphate</th>
<th>Purified water</th>
<th>Sodium bicarbonate</th>
<th>Sodium chloride</th>
<th>Sodium pyruvate</th>
<th>Sucrose</th>
</tr>
</thead>
</table>

Release Specifications

- pH (in air): 7.3-7.5
- Osmolarity: 285-295 mOsm/kg
- MEA: ≥ 80%
- Endotoxins: < 0.4 EU/mL
- Shelf Life: 8 weeks from date of manufacture
- Sterile: Filtered (SAL 10^-3)

Global Product Number

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Order Number</th>
<th>Volume mL</th>
</tr>
</thead>
<tbody>
<tr>
<td>G26738</td>
<td>K-SIBF-5000</td>
<td>3 x 20</td>
</tr>
</tbody>
</table>

Usage

The kit is used to cryopreserve blastocysts on day 5 or 6 using a slow-freeze technique.
Constituents
Calcium lactate
Calcium pantothenate
D-Glucose
EDTA
Gentamicin
Glutamine-stabilized
Glycine
HEPES
Human serum albumin
L-Alanine
L-Asparagine monohydrate
L-Aspartic acid
L-Glutamic acid
L-Proline
L-Serine
L-Taurine
Magnesium chloride
Magnesium sulphate
Potassium chloride
Potassium phosphate
Purified water
Sodium chloride
Sodium bicarbonate
Sodium pyruvate
Sucrose

Release Specifications
pH (in air): 7.3-7.5
Osmolarity: 285-295 mOsm/kg
MEA: ≥ 80%
Endotoxins: < 0.4 EU/mL
Shelf Life: 8 weeks from date of manufacture
Sterile: Filtered (SAL 10^3)

Blastocyst Thawing Kit
Used to protect human blastocysts during thawing and rehydration stages.

Enables successful blastocyst thawing and rehydration.
• A simple, four-step thawing process.
• Protects cryopreserved blastocysts during thawing with a HEPES-buffered kit.

Global Product Number | Order Number | Volume mL
------------------------|-------------|--------
G26739 K-SIBT-5000      |             | 4 x 20

Usage
For thawing blastocysts using a four-step process.
Blastocyst Vitrification Kit*

Used for the vitrification of blastocysts on Day 5 or Day 6.

Enables successful vitrification of blastocysts.
- A HEPES-buffered kit containing DMSO, ethylene glycol and trehalose as cryoprotectants.
- A simple, three-step vitrification process.

**Constituents**
- Calcium lactate
- Calcium pantothenate
- D-Glucose
- DMSO
- EDTA
- Ethylene glycol
- Gentamicin
- Glutamine-stabilized
- Glycine
- HEPES
- Human serum albumin
- L-Alanine
- L-Asparagine monohydrate
- L-Aspartic acid
- L-Glutamic acid
- L-Proline
- L-Serine
- L-Taurine
- Magnesium chloride
- Magnesium sulphate
- Potassium chloride
- Potassium phosphate
- Purified water
- Sodium bicarbonate
- Sodium chloride
- Sodium pyruvate
- Trehalose

**Release Specifications**
- pH (in air): 7.3-7.5
- Osmolarity: 285-295 mOsm/kg
- MEA: ≥ 80%
- Endotoxins: < 0.4 EU/mL
- Shelf Life: 8 weeks from date of manufacture
- Sterile: Filtered (SAL 10⁻³)

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Volume mL</th>
</tr>
</thead>
<tbody>
<tr>
<td>G49621</td>
<td>K-SIBV-5000</td>
<td>3 x 20 &amp; 1 x 10</td>
</tr>
</tbody>
</table>

**Usage**
For the vitrification of blastocysts on Day 5 or Day 6.

*Not currently on the Australian register of therapeutic goods and not currently available in the U.S. Please contact your local representative for updated information.*
Blastocyst Warming Kit*

Used for the warming of human blastocysts that have undergone vitrification.

Enables successful warming of vitrified blastocysts.
- Uses a HEPES-buffered kit containing trehalose.
- A simple, three-step warming process.

**Constituents**

- Calcium lactate
- Calcium pantothenate
- D-Glucose
- EDTA
- Gentamicin
- Glutamine-stabilized
- Glycine
- HEPES
- Human serum albumin
- L-Alanine
- L-Asparagine monohydrate
- L-Aspartic acid
- L-Glutamic acid
- L-Proline
- L-Serine
- L-Taurine
- Magnesium chloride
- Magnesium sulphate
- Potassium chloride
- Potassium phosphate
- Purified water
- Sodium bicarbonate
- Sodium chloride
- Sodium pyruvate
- Trehalose

**Release Specifications**

- pH (in air): 7.3-7.5
- Osmolarity: 285-295 mOsm/kg
- MEA: ≥ 80%
- Endotoxins: < 0.4 EU/mL
- Shelf Life: 8 weeks from date of manufacture
- Sterile: Filtered (SAL 10⁸)

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Volume mL</th>
</tr>
</thead>
<tbody>
<tr>
<td>G49626</td>
<td>K-SIBW-5000</td>
<td>3 x 20</td>
</tr>
</tbody>
</table>

**Usage**

For the warming of human blastocysts that have undergone vitrification.

* Not currently on the Australian register of therapeutic goods and not currently available in the U.S. Please contact your local representative for updated information.
Part VI: Embryo Transfer

The embryo transfer process is a critical step in IVF treatment. Placing the embryo(s) in the correct position in the uterine cavity with minimal trauma is essential to optimizing outcomes. Cook has a range of precision-crafted embryo transfer catheters to ensure that this critical procedure is simple, atraumatic and repeatable.

Sydney IVF Embryo Transfer Catheter Sets .......................... 62
Microvol™ Embryo Transfer Catheters ............................... 63
Soft-Trans Embryo Transfer Catheter Sets ......................... 64
Soft-Pass™ Embryo Transfer Catheter Sets ......................... 66
EchoTip® Soft-Pass TVP Transfer Catheter ......................... 67
Flushing Catheters ......................................................... 68
Nontoxic Syringe .......................................................... 69
Transmyometrial Embryo Transfer—Towako Sets ............... 70
## Sydney IVF Embryo Transfer Catheter Sets

Used for the atraumatic transfer of embryos into the uterine cavity.

- Precurved guiding catheter facilitates catheter insertion.
- Atraumatic bulb tip eases passage through cervix.
- Soft, flexible transfer catheter minimizes endometrial trauma.
- Microvol™ technology reduces the volume of medium required to transfer embryos.
- Cervical stop comes set at 4 cm with an additional stop at 5 cm.

![Diagram of catheter sets](image)

### Catheter Sets

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Guide Catheter Fr</th>
<th>Guide Catheter Length cm</th>
<th>Transfer Catheter Fr</th>
<th>Transfer Catheter Length cm</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G20683</td>
<td>K-JETS-6019-SIVF</td>
<td>6.6</td>
<td>16.7</td>
<td>2.8</td>
<td>23</td>
<td>catheters packed assembled</td>
</tr>
<tr>
<td>G18740</td>
<td>K-JETS-7019-SIVF</td>
<td>6.6</td>
<td>17.3</td>
<td>2.8</td>
<td>24</td>
<td>catheters packed separately</td>
</tr>
</tbody>
</table>

### Polycarbonate Hub

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Guide Catheter Fr</th>
<th>Guide Catheter Length cm</th>
<th>Transfer Catheter Fr</th>
<th>Transfer Catheter Length cm</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G18740</td>
<td>K-JETS-7019-SIVF</td>
<td>6.6</td>
<td>17.3</td>
<td>2.8</td>
<td>24</td>
<td>catheters packed separately</td>
</tr>
</tbody>
</table>

### Components

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G48344</td>
<td>K-JET-7002-SIVF</td>
<td>malleable obturator to fit K-JETS-7019-SIVF</td>
</tr>
</tbody>
</table>
Microvol™ Embryo Transfer Catheters

Used for the atraumatic transfer of embryos into the uterine cavity.

- Microvol Technology reduces the volume of medium required for embryo transfer.
- Use of less fluid reduces the chance of embryo migration.
- EchoTip® band enhances visualization of the catheter tip when used with ultrasonic imaging equipment.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Inner Diameter inch</th>
<th>Guide Catheter Fr</th>
<th>Guide Catheter Length cm</th>
<th>Transfer Catheter Fr</th>
<th>Transfer Catheter Length cm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>No Inner Support Cannula</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G27210</td>
<td>K-MVOL-681200</td>
<td>.021</td>
<td>6.8</td>
<td>12</td>
<td>4.4</td>
<td>19.7</td>
</tr>
<tr>
<td>G46196</td>
<td>K-MVOL-681200-ET</td>
<td>.021</td>
<td>6.8</td>
<td>12</td>
<td>4.4</td>
<td>19.7</td>
</tr>
<tr>
<td>G27211</td>
<td>K-MVOL-681700</td>
<td>.021</td>
<td>6.8</td>
<td>17</td>
<td>4.4</td>
<td>24.7</td>
</tr>
<tr>
<td>G46193</td>
<td>K-MVOL-681700-ET</td>
<td>.021</td>
<td>6.8</td>
<td>17</td>
<td>4.4</td>
<td>24.7</td>
</tr>
<tr>
<td><strong>With Inner Support Cannula</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G46197</td>
<td>K-MVOL-681210</td>
<td>.021</td>
<td>6.8</td>
<td>12</td>
<td>4.4</td>
<td>19.7</td>
</tr>
<tr>
<td>G46195</td>
<td>K-MVOL-681210-ET</td>
<td>.021</td>
<td>6.8</td>
<td>12</td>
<td>4.4</td>
<td>19.7</td>
</tr>
<tr>
<td>G46194</td>
<td>K-MVOL-681710</td>
<td>.021</td>
<td>6.8</td>
<td>17</td>
<td>4.4</td>
<td>24.7</td>
</tr>
<tr>
<td>G46192</td>
<td>K-MVOL-681710-ET</td>
<td>.021</td>
<td>6.8</td>
<td>17</td>
<td>4.4</td>
<td>24.7</td>
</tr>
<tr>
<td><strong>Components</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G17342</td>
<td>J-SP-201320</td>
<td>4.4</td>
<td>14.7</td>
<td></td>
<td></td>
<td>stainless steel malleable obturator for use with 12 cm Microvol catheter</td>
</tr>
<tr>
<td>G17260</td>
<td>J-SP-201820</td>
<td>4.4</td>
<td>19.7</td>
<td></td>
<td></td>
<td>stainless steel malleable obturator for use with 17 cm Microvol catheter</td>
</tr>
</tbody>
</table>
Soft-Trans Embryo Transfer Catheter Sets

Used for the atraumatic transfer of embryos into the uterine cavity.

- The soft, flexible transfer catheter is designed to facilitate catheter placement.
- A malleable obturator is available, which can be formed to facilitate placement in patients with a difficult cervix.
- Closed-end trial catheter allows assessment of cervix prior to embryo transfer.

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Guide Catheter Fr</th>
<th>Guide Catheter Length cm</th>
<th>Transfer Catheter Fr</th>
<th>Transfer Catheter Length cm</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G20195</td>
<td>K-SOFT-5000</td>
<td>7.0</td>
<td>15.4</td>
<td>4.7</td>
<td>23.1</td>
<td>consists of transfer catheter and guide catheter</td>
</tr>
<tr>
<td>G26662</td>
<td>K-SOFT-5000-TC</td>
<td>7.0</td>
<td>15.4</td>
<td>4.7</td>
<td>23.1</td>
<td>contains transfer and guide catheter and trial catheter</td>
</tr>
<tr>
<td>G26669</td>
<td>K-SOFT-5000-MO</td>
<td>7.0</td>
<td>15.4</td>
<td>4.7</td>
<td>23.1</td>
<td>contains transfer and guide catheter and malleable obturator</td>
</tr>
</tbody>
</table>
### Soft-Trans Embryo Transfer Catheter Components

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Guide Catheter Fr</th>
<th>Guide Catheter Length cm</th>
<th>Transfer Catheter Fr</th>
<th>Transfer Catheter Length cm</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G20197</td>
<td>K-SOFT-5100</td>
<td>-</td>
<td>-</td>
<td>4.7</td>
<td>23.1</td>
<td>embryo transfer catheter only</td>
</tr>
<tr>
<td>G49406</td>
<td>K-SOFT-4018</td>
<td>-</td>
<td>-</td>
<td>4.0</td>
<td>18.0</td>
<td>malleable obturator only</td>
</tr>
<tr>
<td>G49409</td>
<td>K-SOFT-4723</td>
<td>-</td>
<td>-</td>
<td>4.7</td>
<td>23.0</td>
<td>trial catheter only</td>
</tr>
<tr>
<td>G20481</td>
<td>K-SOFT-5010</td>
<td>7.0</td>
<td>15.4</td>
<td>-</td>
<td>-</td>
<td>guide catheter only</td>
</tr>
<tr>
<td>G20370</td>
<td>K-SOFT-5000-ST</td>
<td>7.0</td>
<td>11.4</td>
<td>4.7</td>
<td>19.1</td>
<td>embryo transfer catheter and guide catheter</td>
</tr>
<tr>
<td>G49407</td>
<td>K-SOFT-4014</td>
<td>-</td>
<td>-</td>
<td>4.0</td>
<td>14.0</td>
<td>malleable obturator only</td>
</tr>
<tr>
<td>G26151</td>
<td>K-SOFT-5020</td>
<td>7.0</td>
<td>15.4</td>
<td>4.7</td>
<td>23.1</td>
<td>embryo transfer catheter and guide catheter</td>
</tr>
<tr>
<td>G29638</td>
<td>K-SOFT-5510</td>
<td>7.0</td>
<td>15.4</td>
<td>-</td>
<td>-</td>
<td>guide catheter only</td>
</tr>
<tr>
<td>G20312</td>
<td>K-SOFT-1000</td>
<td>-</td>
<td>-</td>
<td>4.7</td>
<td>22.1</td>
<td>transfer catheter only</td>
</tr>
</tbody>
</table>
**Soft-Pass™ Embryo Transfer Catheter Sets**  
Used for the atraumatic transfer of embryos into the uterine cavity.

- The soft, flexible transfer catheter is designed to facilitate catheter placement.
- EchoTip® band enhances visualization of the catheter tip when used with ultrasonic imaging equipment.
- Available with transfer catheters that incorporate an integral stainless steel support cannula to aid catheter placement.

![Diagram of catheter components](image)

<table>
<thead>
<tr>
<th>Global Product Number</th>
<th>Order Number</th>
<th>Guide Catheter Fr</th>
<th>Guide Catheter Length cm</th>
<th>Transfer Catheter Fr</th>
<th>Transfer Catheter Length cm</th>
<th>Support Cannula</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sets with Transparent Polyethylene Guiding Catheter</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G17932</td>
<td>K-J-SPPE-681200</td>
<td>6.8</td>
<td>12</td>
<td>4.4</td>
<td>19.7</td>
<td>no</td>
</tr>
<tr>
<td>G17933</td>
<td>K-J-SPPE-681700</td>
<td>6.8</td>
<td>17</td>
<td>4.4</td>
<td>24.7</td>
<td>no</td>
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<td>G17260</td>
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EchoTip® Soft-Pass TVP Transfer Catheter

Used for the atraumatic transfer of embryos into the uterine cavity.

- Physician has complete control over embryo placement.
- EchoTip band enhances visualization of the catheter tip when used with ultrasonic imaging equipment.
- Patients are not required to have a full bladder during ultrasound.
- The catheter’s cervical stop prevents advancement to the fundus and allows easy removal.
- The securing adapter can be tightened to prevent the transfer catheter from advancing.

<table>
<thead>
<tr>
<th>Global Product Number</th>
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<th>Guide Catheter Fr</th>
<th>Guide Catheter Length cm</th>
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Part VI: Embryo Transfer

Flush Catheters
Used for instillation of saline or culture medium.

- Sideport design allows retrograde flushing of medium.
- An adjustable silicone stopper can be preset for appropriate depth.

<table>
<thead>
<tr>
<th>Global Product Number</th>
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Nontoxic Syringe

Nontoxic, two-piece syringe contains no natural rubber latex.

1.0 mL NONTOXIC SYRINGE

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<td>box of 25 individually packed 1.0 mL syringes</td>
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Transmyometrial Embryo Transfer—
Towako Sets

Used in conjunction with a transvaginal ultrasound transducer to place embryos into the endometrium or uterine cavity.

EchoTip® band enhances visualization of the catheter tip when used with ultrasonic imaging equipment.

<table>
<thead>
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</tbody>
</table>

The 2.0 Fr transfer catheter exits the needle bevel when the hub of the transfer catheter is pushed firmly into the Luer lock fitting.
References

REF1:
MINC BENCHTOP INCUBATOR

REF2:
1.1. SYDNEY IVF EMBRYO TRANSFER CATHETER SETS

REF3:
2.1. ECHOTIP® SOFT-PASS EMBRYO TRANSFER CATHETER SETS

REF4:
3.1. TRANSMYOMETRIAL EMBRYO TRANSFER—TOWAKO SETS