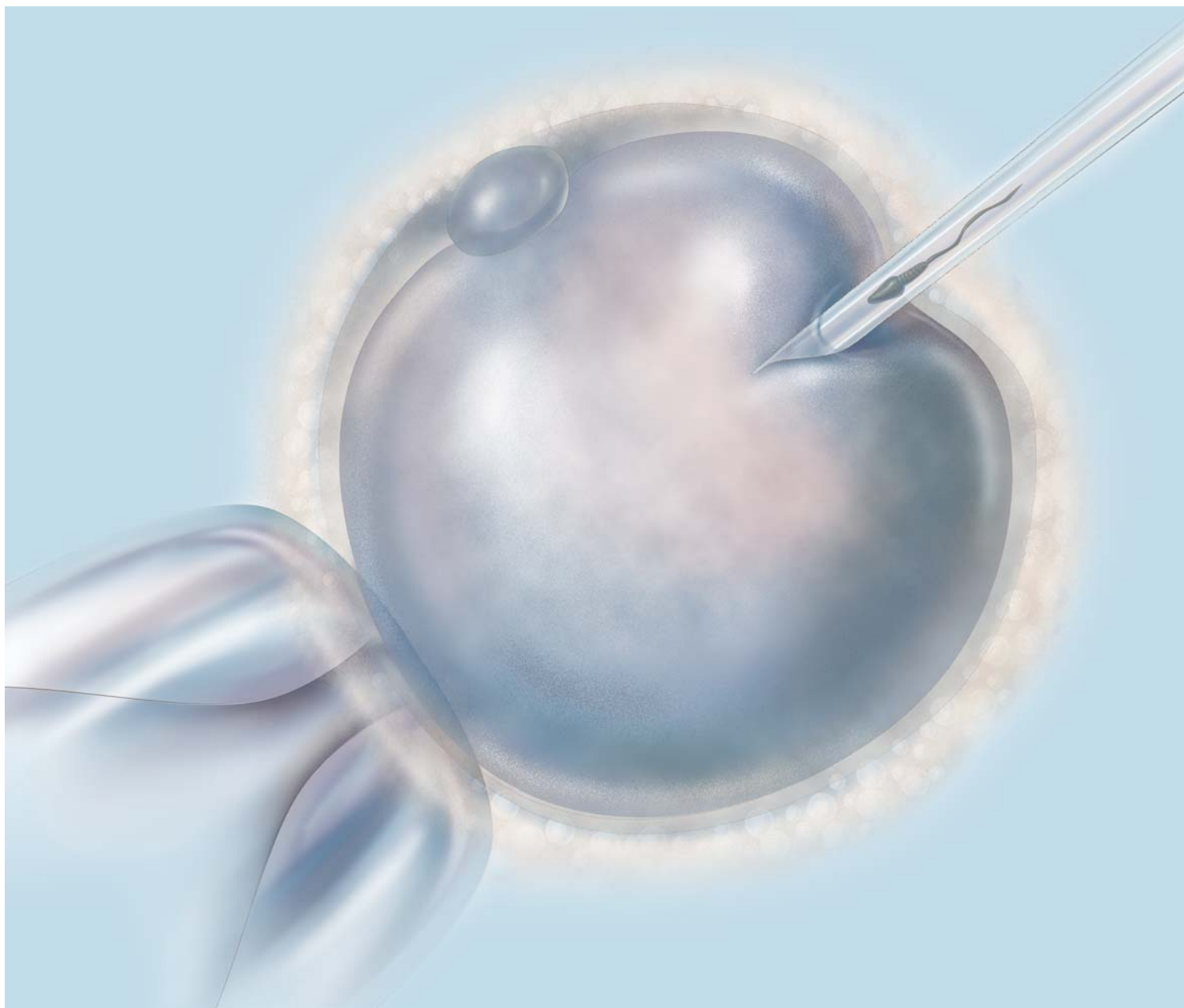




## ASSISTED REPRODUCTIVE TECHNOLOGY





# General Information

## 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 Sandiford 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

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

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

⊗	EO	R	ET	LAL	MEA	L	REF
⊗	Single use only.						
EO	Sterilized by ethylene oxide.						
R	Sterilized by gamma irradiation.						
ET	EchoTip® for enhanced visualization under ultrasound.						
LAL	Endotoxin tested.						
MEA	Mouse embryo assay.						
L	CAUTION: This product contains natural rubber latex that may cause allergic reactions in some individuals.						
REF	See references on page 71.						

## 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.

#### REFERENCE

Parinaud J, Reme JE, Monrozies X, et al. Mouse embryo system quality control is necessary before the use of new material for in vitro fertilization and embryo transfer. *J In Vitro Fert Embryo Transf.* 1987;4(1):56-58.

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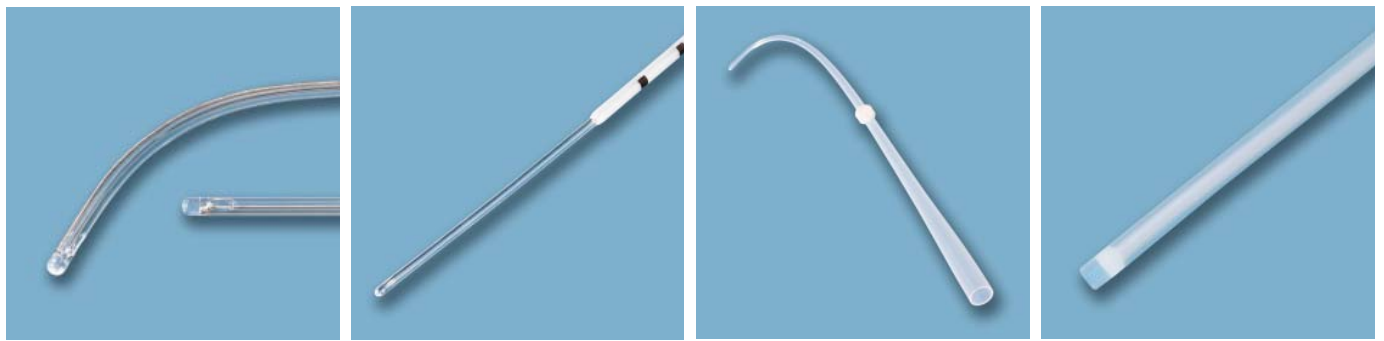
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## Part I: Intrauterine Insemination (IUI)

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.

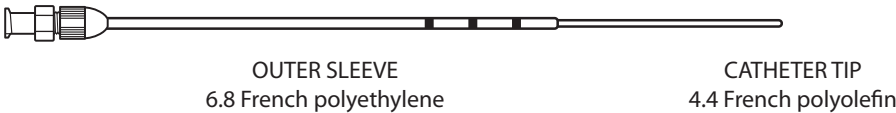
Global Product Number	Order Number	Outer Sleeve Fr	Outer Sleeve Length cm	Malleable Tip Fr	Malleable Tip Length cm	Unit of Sale
G18903	J-IFC-090017	9.0	12	6.0	5	box of 20



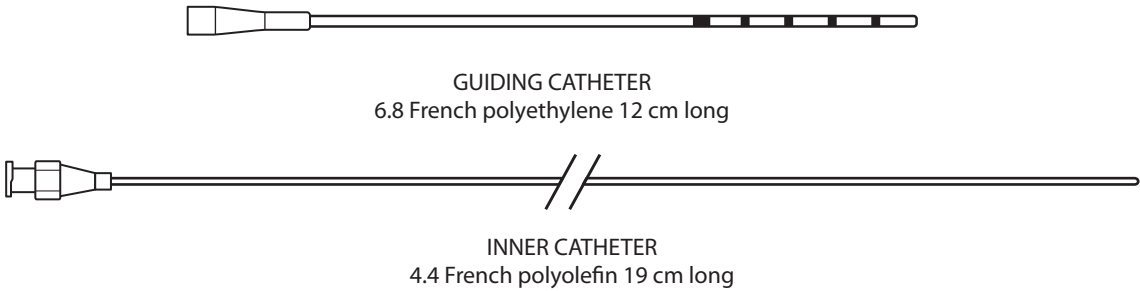
## Soft-Pass™ Insemination Catheters

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.



Global Product Number	Order Number	Outer Sleeve Fr	Outer Sleeve Length cm	Catheter Tip Fr	Catheter Tip Length cm
One-Piece Insemination Catheter					
G17912	J-SPI-068015	6.8	10	4.4	5



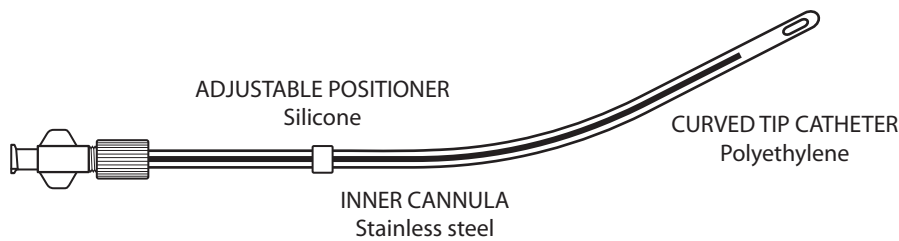
Global Product Number	Order Number	Guiding Catheter Fr	Guiding Catheter Length cm	Inner Catheter Fr	Inner Catheter Length cm
Coaxial Insemination Catheter					
G18190	J-SPI-068012-CX	6.8	12	4.4	19.7



## 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.



Global Product Number	Order Number	Fr	Length cm	Unit of Sale	Description
G16454	J-IUIE-541009	5.4	10	box of 20	curved tip; with inner stainless steel cannula
G16465	J-IUIE-542009	5.4	20	box of 20	curved tip; with inner stainless steel cannula
G16463	J-IUIE-542001	5.4	20	box of 20	curved tip; with inner stainless steel cannula

### Modified Shepard Intrauterine Insemination Catheters

G16469	J-IUIE-542031	5.4	20	box of 20	curved tip; without inner cannula
G16468	J-IUIE-542030	5.4	20	box of 20	straight tip; without inner cannula



## 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.

Global Product Number	Order Number	Fr	Length cm	Unit of Sale	Description
G16707	J-IUIC-351300	3.5	13	box of 20	natural camber distal tip and open end, without positioner
G16786	J-IUIC-351304	3.5	13	box of 20	preset curved distal tip, open end and adjustable silicone positioner
G16961	J-IUIC-351341	3.5	13	box of 20	natural camber distal tip, closed end, notch and adjustable silicone positioner



# Aspiracath™

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

The integrated plunger provides additional rigidity, facilitating catheter placement.



Global Product Number	Order Number	Fr	Length cm	Description
G17270	J-ASP-092500	9.3	25	polyethylene



## Part II: Ovum Collection

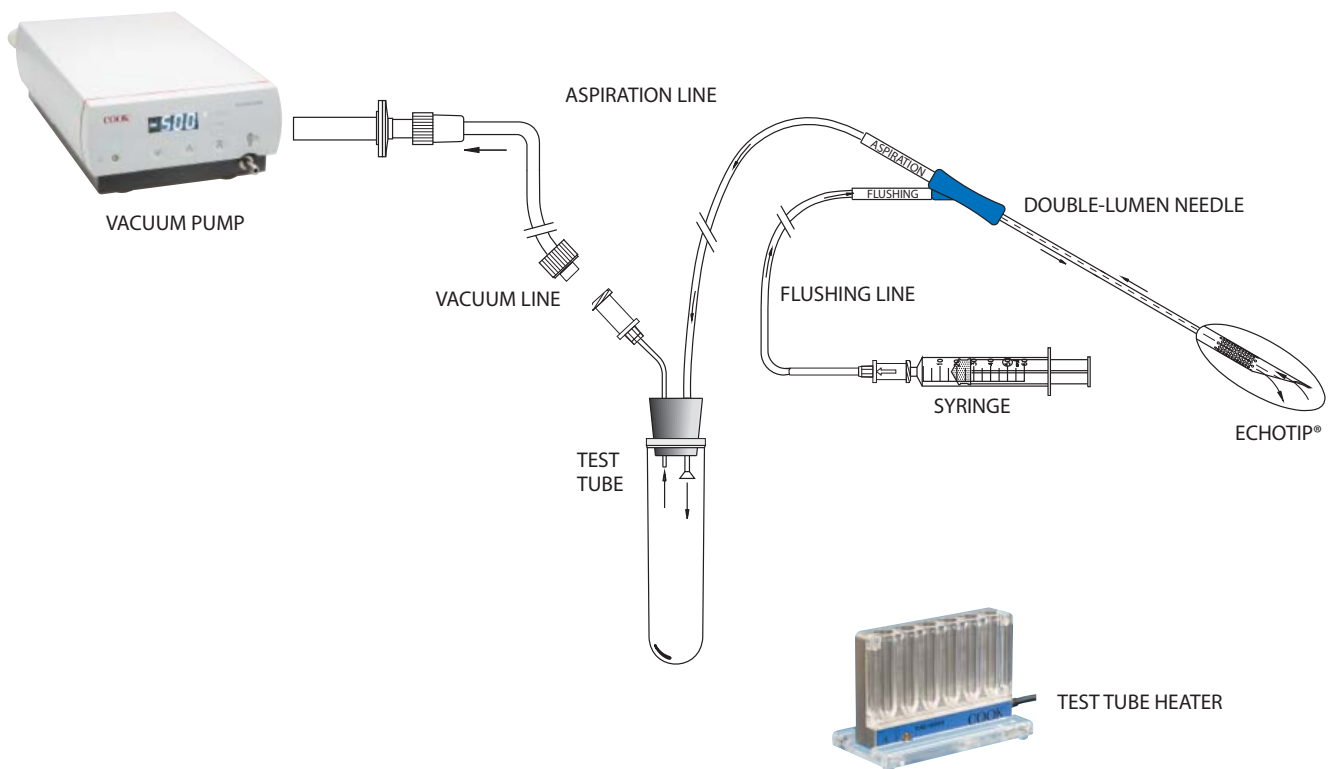
Ovum aspiration subjects the oocyte-cumulus complex (OCC) to a series of stressful events that have the potential to significantly compromise its viability. The following Cook Medical products have been designed to maintain optimal viability of the OCC, reduce patient trauma and simplify the procedure. 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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## Follicular Volume & Aspiration

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.







## 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

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

### 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.

Global Product Number	Order Number	Description
G49275	K-MAR-5200	includes Cook Aspiration Unit, connecting tube with hydrophobic filter and foot pedal actuator



## Vacuum Lines & Filters

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

Global Product Number	Order Number	Description
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### Disposable Vacuum Line & Filter

G38692	K-DVLF-240	hydrophobic filter and 240 cm long vacuum line connects to Cook Aspiration Unit's vacuum pump and all Cook ovum collection needles
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### Disposable Vacuum Line

G26736	K-DVL-240	low-volume connecting tube, 240 cm long with Luer lock connectors
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### Disposable Filters

G26721	K-MAR-CTS-8-SO-S	hydrophobic filter only; connects to silicone tubing
G26727	K-MAR-CTS-8-SO-FLL	hydrophobic filter with female Luer lock connector attaches to K-DVL-240

### Disposable Lightweight Filter and Vacuum Tubing Set

G18645	K-VLF-240-LL	disposable hydrophobic filter and 240 cm long lightweight vacuum line with Luer lock connector
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### Disposable Filter and Vacuum Tubing Set

G19124	K-MAR-CT-300-LL	disposable hydrophobic filter and 300 cm long vacuum line with Luer lock connector
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### Disposable Polyethylene Connecting Tube

G26134	K-PV14.0-180-P-M-0	14.0 Fr, 180 cm long with Luer lock connector; connects barbed adapter on vacuum pump to ovum collection needle
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## 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.

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

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

### Accessories

G25977	K-FTH-1012-CP	replacement front panel for K-FTH-1012
G26044	K-FTHH-1000	Falcon Tube Heater Holder attaches to drip stand or similar.

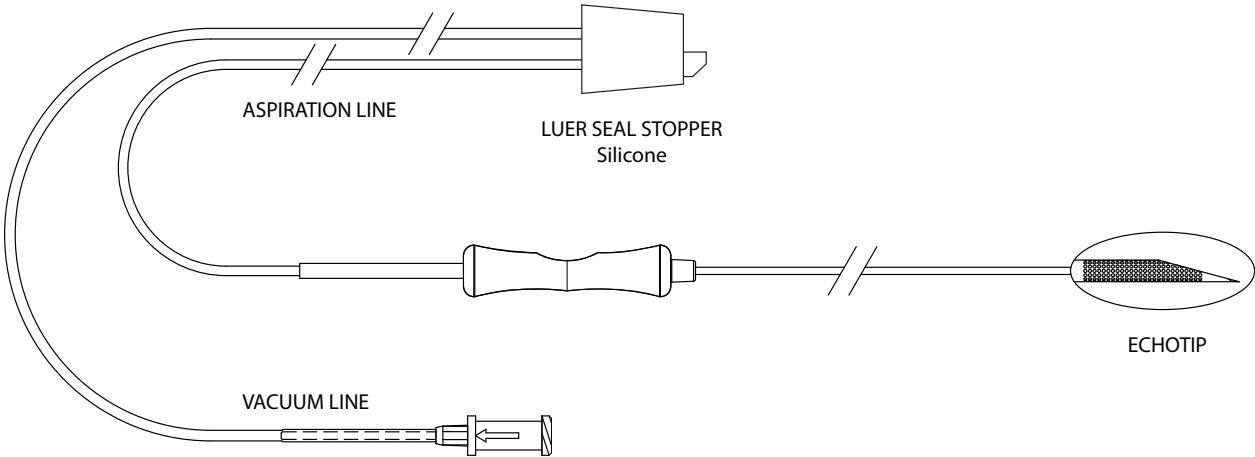
*Falcon is a trademark of Becton, Dickinson and Company.*



## 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.



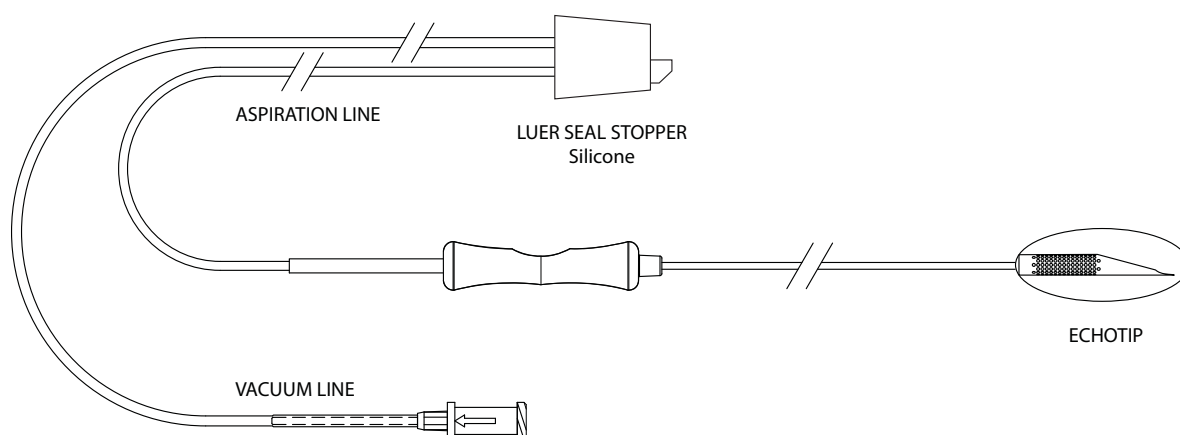
Global Product Number	Order Number	gage	Length cm	Aspiration Line cm
G30430	K-OSN-1630-B-60	16	30	60
G30432	K-OSN-1635-B-60	16	35	60
G29617	K-OSN-1635-B-90	16	35	90
G29618	K-OSN-1730-B-60	17	30	60
G29625	K-OSN-1735-B-60	17	35	60
G30460	K-OSN-1730-B-90	17	30	90
G29626	K-OSN-1735-B-90	17	35	90



## 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.



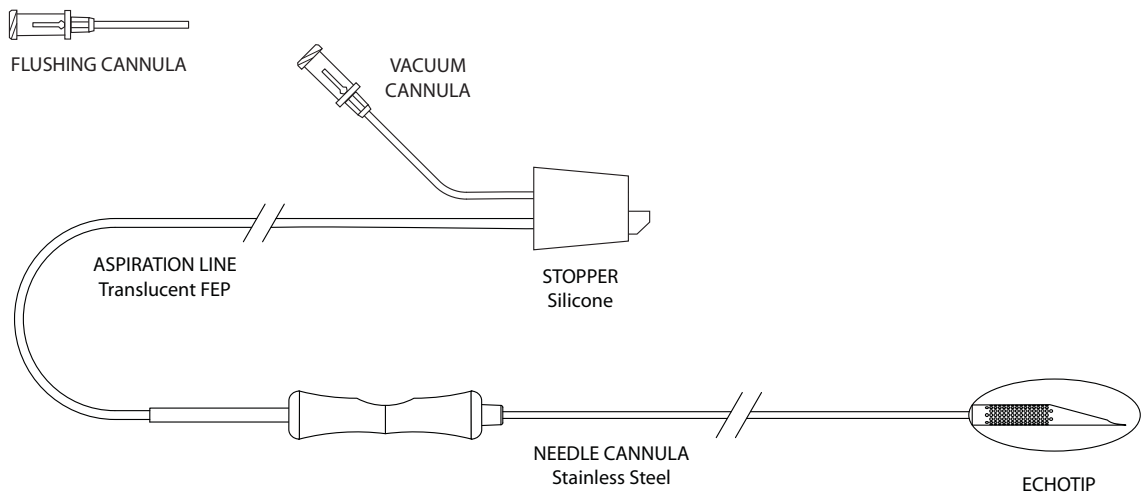
Global Product Number	Order Number	gage	Length cm	Aspiration Line cm
G30429	K-OSN-1630-A-60	16	30	60
G30431	K-OSN-1635-A-60	16	35	60
G30458	K-OSN-1630-A-90	16	30	90
G30459	K-OSN-1635-A-90	16	35	90
G30437	K-OSN-1730-A-60	17	30	60
G29620	K-OSN-1735-A-60	17	35	60
G32741	K-OSN-1730-A-90	17	30	90
G29624	K-OSN-1735-A-90	17	35	90



## 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.



Global Product Number	Order Number	gage	Length cm	Aspiration Line cm	Bevel	Handle Color
G20943	K-OPS-6035-RWH-B-ET	18	35	60	B	pink
G19715	K-OPS-6035-RWH-ET	18	35	60	RWH	pink
G26182	K-OPS-7030-RWH-ET	19	30	60	RWH	brown
G26638	K-OPS-7035-RWH-ET	19	35	60	RWH	brown
G26631	K-OPS-8035-RWH-ET	20	35	60	RWH	yellow
G26056	K-OPS-8035-RWH-B-ET	20	35	60	B	yellow
G50735	K-OPS-2130*	21	30	75	RWH	green
G50736	K-OPS-2135*	21	35	75	RWH	green

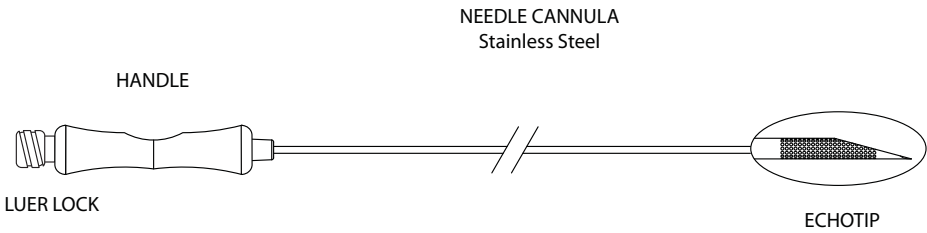
\*Fitted with 50 cm vacuum line



# 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.



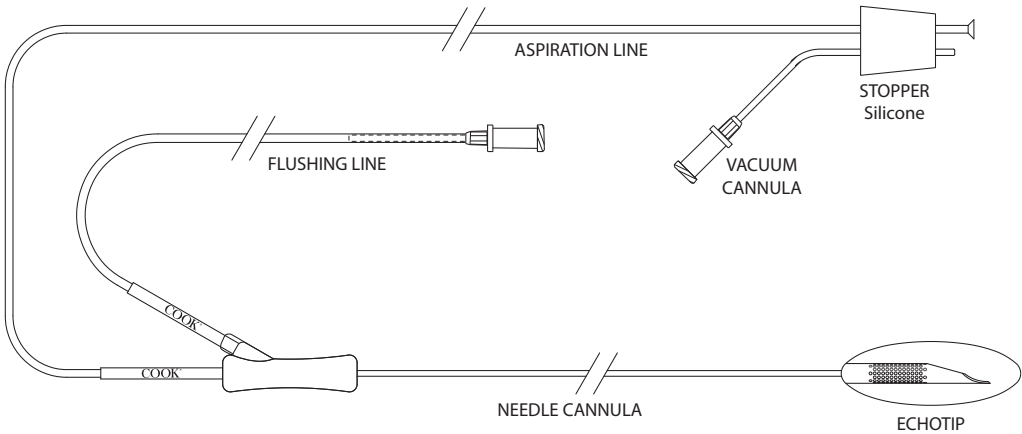
Global Product Number	Order Number	gage	Length cm	Handle Color
G20359	K-OPAA-1635	16	35	blue
G26633	K-OPAA-1725	17	25	red
G20377	K-OPAA-1730	17	30	red
G20538	K-OPAA-1735	17	35	red
G29611	K-OPAA-1830	18	30	pink
G26208	K-OPAA-1835	18	35	pink
G26209	K-OPAA-1935	19	35	brown



# 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.



Global Product Number	Order Number	gage	Length cm	Flushing Line Length cm	Bevel
G30411	K-OPSD-1630-B-L	16	30	100	B
G32715	K-OPSD-1635-B-L	16	35	100	B
G30468	K-OPSD-1735-B-L	17	35	100	B
G30466	K-OPSD-1633-A-L	16	33	100	A
G30415	K-OPSD-1635-A-L	16	35	100	A
G30463	K-OPSD-1730-A-L	17	30	100	A
G30461	K-OPSD-1735-A-L	17	35	100	A

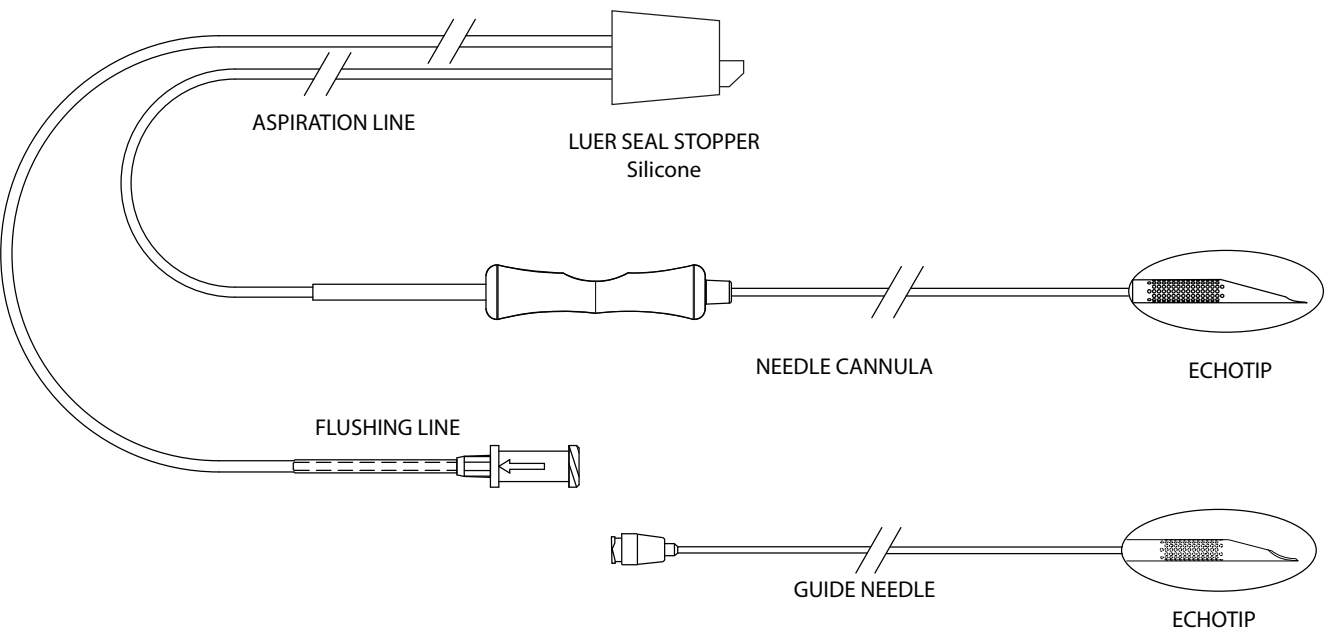




## Immature Ovum Aspiration Needle

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.



Global Product Number	Order Number	Guide Needle gage	Guide Needle Length cm	Aspiration Needle gage	Aspiration Needle Length cm	Aspiration Tubing Length cm
G38609	K-IOPS-2035-1730	17	30	20	35	60





## 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.

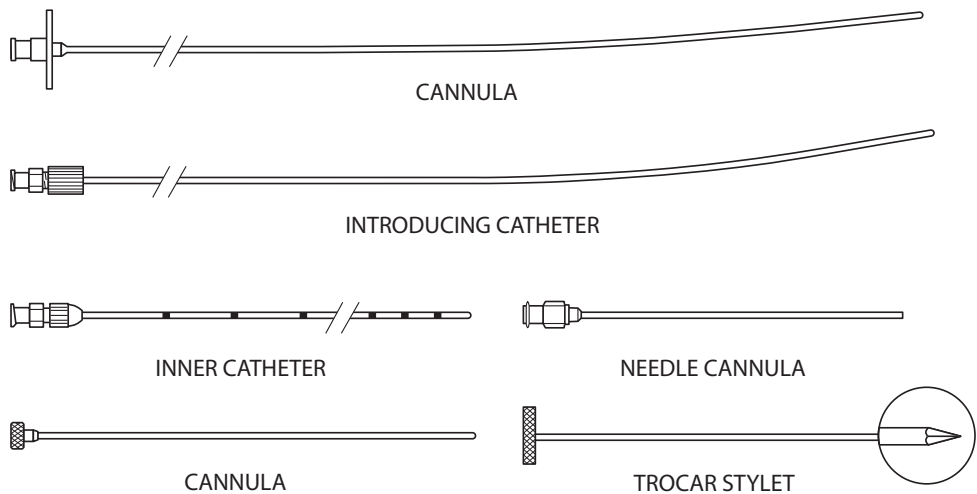
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Marrs Laparoscopic G.I.F.T. Catheters . . . . .	27
Cook Laparoscopic Trocar & Cannula . . . . .	28



## 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	Order Number	Description
G18024	K-J-PGS-652500	Set consists of the following:
		16 gage, 25 cm Introducing Cannula (stainless steel)
		6.3 Fr, 24.5 cm Introducing Catheter (TFE)
		3.5 Fr, 35 cm Inner Catheter (TFE)
		12 gage, 18 cm Needle Cannula (stainless steel)
		Trocar Stylet (stainless steel)
		Endoscopic Caps (silicone)



## Marrs Laparoscopic G.I.F.T. Catheters

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

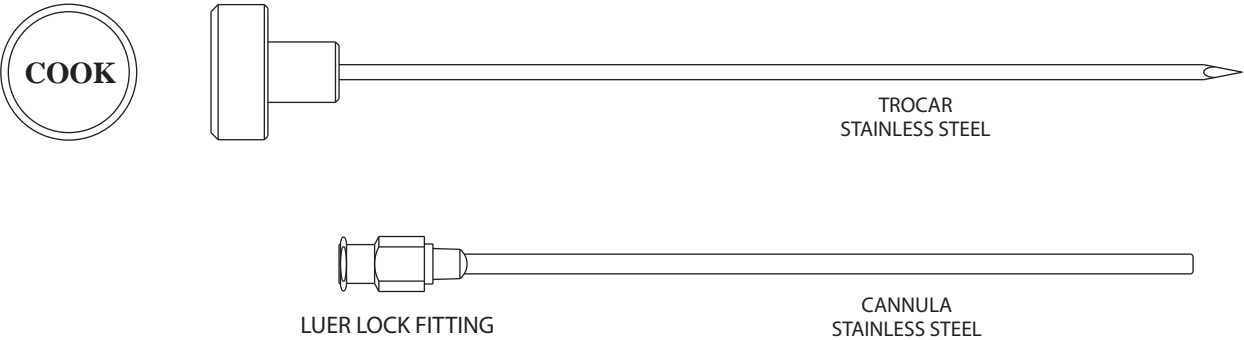
Graduations on the distal portion of the delivery catheter assist placement.

Global Product Number	Order Number	Fr	Length cm	Description
G18022	K-J-MLC-503000	5.0	30	translucent TFE
G18023	K-J-MLC-505000	5.0	50	translucent TFE



## 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.



Global Product Number	Order Number	Needle gage	Needle Length cm	Description
G19804	K-SANT-1418	14	18	laparoscopic cannula and trocar with Luer lock fitting



## 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.

Global Product Number	Order Number	Inner Diameter $\mu\text{m}$	Description
Denuding Pipettes—5 Vials of 10 (50 Total)			
G26711	K-FPIP-1130-10BS-5	130	oocyte/embryo manipulation
G26712	K-FPIP-1140-10BS-5	140	oocyte/embryo manipulation
G26713	K-FPIP-1170-10BS-5	170	oocyte/embryo manipulation
Manipulation Pipettes—1 Vial of 10 (10 Total)			
G18878	K-FPIP-1300-10BS	300	blastocyst handling
Manipulation Pipettes—5 Vials of 10 (50 Total)			
G46020	K-FPIP-1300-10BS-5	300	blastocyst handling
G26057	K-FPIP-1600-10BS-5	600	manipulation of oocyte-cumulus complex



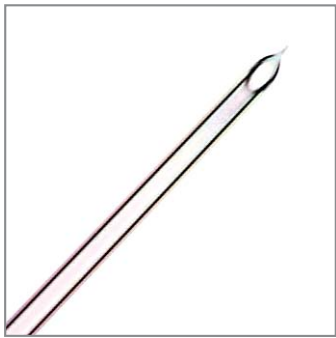


## Cook® Flexipet® Adjustable Handle

Used with Cook Flexipet pipettes for handling gametes and embryos.

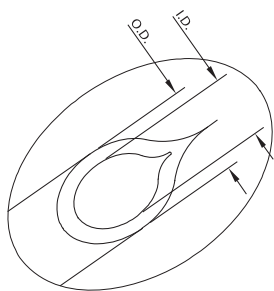
- Aspiration volume can be preset from 0.25  $\mu\text{L}$  to 3.0  $\mu\text{L}$ .
- Provides the fine control necessary for oocyte, embryo and/or blastomere manipulation.

Global Product Number	Order Number	Description
G18674	K-MPH-1000	adjustable handle accepts all sizes of Flexipet pipettes
<b>Accessories</b>		
G18904	K-FRO-1000	one small O-ring, one large O-ring, spacer and collet



## Cook® Precision Micro-Injection Pipettes

Used for the intracytoplasmic single-sperm injection of oocytes.



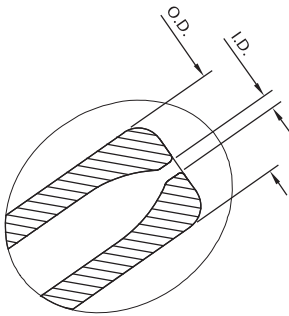
Pipettes specifically designed for ICSI, with parallel walls for precision sperm control and well-defined bevels to aid zona pellucida puncture. These pipettes are supplied in two main groups: the Standard "1" and the Precision "3" series. The Precision "3" series pipettes have parallel walls to better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

Global Product Number	Order Number	Inner Diameter $\mu\text{m}$	Outer Diameter $\mu\text{m}$	Distal Tip Angle	Unit of Sale
G32813	K-MPIP-1020	5.0	7	20°	box of 10
G32814	K-MPIP-1030	5.0	7	30°	box of 10
G18090	K-MPIP-1035	5.0	7	35°	box of 10
G32821	K-MPIP-3330	5.5	7	30°	box of 10
G26684	K-MPIP-3335	5.5	7	35°	box of 10



## 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.



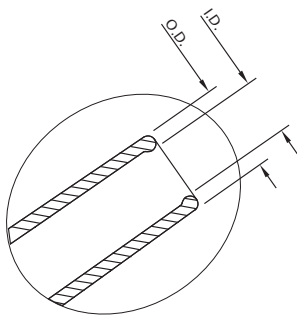
The pipettes are flame polished. The "2" series has a slightly larger inner and outer diameter to improve the stability of the oocyte during ICSI procedures. The "3" series of holding pipettes has a larger inner and outer diameter to provide greater stability and holding power to embryos during procedures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

Global Product Number	Order Number	Inner Diameter $\mu\text{m}$	Outer Diameter $\mu\text{m}$	Distal Tip Angle	Unit of Sale
G32801	K-HPIP-1030	15	75	30°	box of 10
G32802	K-HPIP-1035	15	75	35°	box of 10
G32806	K-HPIP-2130	20	110	30°	box of 10
G32807	K-HPIP-2135	20	110	35°	box of 10
G32810	K-HPIP-3330	30	120	30°	box of 10
G32812	K-HPIP-3335	30	120	35°	box of 10



## Cook® Blastomere Aspiration Pipettes

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



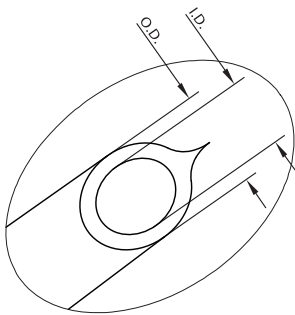
The pipette tip is cut straight and flame polished smooth. Parallel walls facilitate smooth aspiration.

Global Product Number	Order Number	Inner Diameter $\mu\text{m}$	Outer Diameter $\mu\text{m}$	Distal Tip Angle	Unit of Sale
G32795	K-EBPH-3035	30	42	35°	box of 10
G32799	K-EBPH-3535	35	49	35°	box of 10



### Cook® Polar Body Biopsy Pipette

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



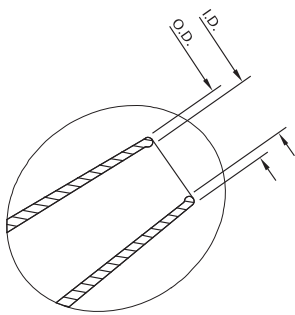
- The pipette tip is beveled with a small spike to aid zona pellucida insertion.
- The pipette has parallel walls to facilitate smooth insertion and aspiration of polar body.

Global Product Number	Order Number	Inner Diameter $\mu\text{m}$	Outer Diameter $\mu\text{m}$	Distal Tip Angle	Unit of Sale
G32822	K-PBBP-2035	20	28	35°	box of 10



### Cook® Zona Drilling Pipettes

Used to make a hole in the zona pellucida to enable assisted hatching and/or blastomere aspiration.



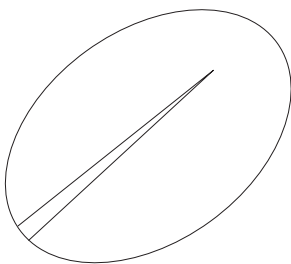
The pipette is designed to facilitate acid manipulation.

Global Product Number	Order Number	Inner Diameter $\mu\text{m}$	Outer Diameter $\mu\text{m}$	Distal Tip Angle	Unit of Sale
G32790	K-AHP-1035	5	10	35°	box of 10
G32794	K-AHP-2035	10	14	35°	box of 10



### Cook® Partial Zona Dissection Pipette

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



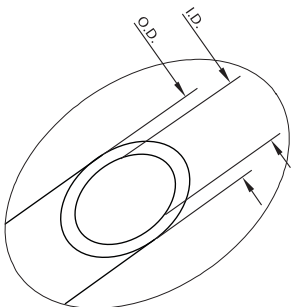
This pipette has a very fine point to create as smooth a cut as possible.

Global Product Number	Order Number	Distal Tip Angle	Unit of Sale
G18095	K-PZDP-1035	35°	box of 10



### 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.

Global Product Number	Order Number	Inner Diameter $\mu\text{m}$	Outer Diameter $\mu\text{m}$	Distal Tip Angle	Unit of Sale
G32823	K-TSEP-1035	7	9	35°	box of 10



## 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 .....	38
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Embryo Biopsy Medium .....	54
Thawing Kit .....	55
Blastocyst Medium .....	56
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Blastocyst Thawing Kit .....	58
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## 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.

Global Product Number	Order Number	Description
G20079	K-MINC-1000	benchtop incubator includes 3 m connecting tubing.
G32707	K-MINC-CTS-S	disposable H <sub>2</sub> O humidification flasks supplied sterile in single packs
G26796	K-MINC-BCT-10-50	braided connecting hose for adding in-line carbon filters or connecting additional units: length 66 cm
G26097	K-MINC-BCT-10-100	braided connecting hose for adding in-line carbon filters or connecting additional units: length 97 cm

### Technical Data

Dimensions	405 x 190 x 385 mm (including allowance for gas line)
Weight	12 kg
Gas Supply	high purity 6% CO <sub>2</sub> /5% O <sub>2</sub> /89% N <sub>2</sub> mixture; nominal input pressure 150 kPa
Power	universal input 100-240 V AC, 50/60 Hz
Safety	designed to conform with AS3200.1 1990, IEC60601.1 and IEC61010.1



## 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 CO<sub>2</sub> environment such as a CO<sub>2</sub> incubator.

### 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<sup>-3</sup>)

- 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.

Global Product Number	Order Number	Volume mL
G48258	K-SIGB-20	20
G48259	K-SIGB-50	50
G48260	K-SIGB-100	100

### 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.



## 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% CO<sub>2</sub>.

### 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  
Osmolarity: 285–295 mOsm/kg  
MEA: ≥ 80%  
Endotoxins: < 0.4 EU/mL  
Shelf Life: 8 weeks from date  
of manufacture  
Sterile: Filtered (SAL 10<sup>-3</sup>)

\* pH equilibrated with 6% CO<sub>2</sub>: 7.3–7.5

Global Product Number	Order Number	Volume mL
G20714	K-SISM-20	20
G20715	K-SISM-50	50
G19017	K-SISM-100	100

### Usage

This medium should be equilibrated to 37°C with 6% CO<sub>2</sub> 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.

### 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<sup>-3</sup>)

- 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.

Global Product Number	Order Number	Volume mL
G26675	K-SISG-20	2 x 20
G19015	K-SISG-50	2 x 50

### 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.



## 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<sup>-3</sup>)

Global Product Number	Order Number	Volume mL
G32772	K-SISP-20	20
G30445	K-SISP-100	100

### 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.

### 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<sup>-3</sup>)

- 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.

Global Product Number	Order Number	Volume mL
G32753	K-SISC-20	20

### Usage

This buffer is suitable for freezing washed spermatozoa, including MESA and TESA samples.



## Follicle Flush Buffer

Used for follicle flushing during ovum collection.

### 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 10<sup>-3</sup>)

- 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.

Global Product Number	Order Number	Volume mL
G20928	K-SIFB-100	100

### 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 CO<sub>2</sub> incubator.



## Oocyte Freeze Kit\*

Used for the cryopreservation of human oocytes.

### 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<sup>-3</sup>)

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

Global Product Number	Order Number	Volume mL
G38571	K-OCF-5000	3 x 20

### 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

Global Product Number	Order Number	Volume mL
G38537	K-OCT-5000	4 x 20

### 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.

### 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<sup>-3</sup>)

\* 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.



## Fertilization Medium

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

### 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

- 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.

Global Product Number	Order Number	Volume mL
G20718	K-SIFM-20	20
G20719	K-SIFM-50	50
G19019	K-SIFM-100	100

### 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.

### 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<sup>-3</sup>)

\* pH equilibrated with 6% CO<sub>2</sub>: 7.3–7.5



## Culture Oil

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

### 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<sup>-3</sup>)

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

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.

### 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

pH (in air)<sup>†</sup>: 7.5–7.8  
Osmolarity: 285–295 mOsm/kg  
MEA: ≥ 80%  
Endotoxins: < 0.4 EU/mL  
Shelf Life: 6 months if stored  
frozen at -20°C upon  
receipt  
Sterile: Filtered (SAL 10<sup>-3</sup>)

<sup>†</sup> pH equilibrated with 6% CO<sub>2</sub>: 7.3–7.5

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

Global Product Number	Order Number	Volume mL
G26773	K-SIHY-1-5	5 x 1

### Usage

The product should be equilibrated in 6% CO<sub>2</sub> 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% polyvinylpyrrolidone.

### 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

Global Product Number	Order Number	Volume µL
G26774	K-SIPV-200-5	5 x 200

### Usage

The product should be equilibrated in 6% CO<sub>2</sub> 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.)

### 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<sup>-3</sup>)

\* pH equilibrated with 6% CO<sub>2</sub>: 7.3–7.5



## Cleavage Medium

Used for human embryo culture from Day 1 to Day 3.

### 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<sup>-3</sup>)

- 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.

Global Product Number	Order Number	Volume mL
G20720	K-SICM-20	20
G20721	K-SICM-50	50
G19018	K-SICM-100	100

### 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.

\* pH equilibrated with 6% CO<sub>2</sub>: 7.3–7.5



## Cryopreservation Kit

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

### 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<sup>-3</sup>)

- 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.

Global Product Number	Order Number	Volume mL
G19016	K-SICS-5000	1 x 20 & 2 x 10

### 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<sup>-3</sup>)

\* pH equilibrated with 6% CO<sub>2</sub>: 7.3–7.5

Global Product Number	Order Number	Volume mL
G26120	K-SIEB-20	20

### Usage

This medium requires equilibration in a 6% CO<sub>2</sub> 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

Global Product Number	Order Number	Volume mL
G19014	K-SITS-5000	4 x 10

### 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.

### 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<sup>-3</sup>)



## Blastocyst Medium

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

### 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<sup>-3</sup>)

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.

Global Product Number	Order Number	Volume mL
G20722	K-SIBM-20	20
G20929	K-SIBM-50	50

### Usage

Once an embryo has reached the Day 3 (eight-cell) stage, it is then transferred into Blastocyst Medium. This medium has been metabolically balanced to maximize blastocyst development rates and is suitable for blastocyst transfer. This is the third and final step of the Cook® sequential system.

\* pH equilibrated with 6% CO<sub>2</sub>; 7.3–7.5



## Blastocyst Cryopreservation Kit

Used to protect human blastocysts during dehydration and freezing.

### Constituents

Calcium lactate  
Calcium pantothenate  
D-Glucose  
EDTA  
Gentamicin  
Glutamine-stabilized  
Glycerol  
Glycine  
HEPES  
Human serum albumin  
Sodium chloride  
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 bicarbonate  
Sodium chloride  
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<sup>-3</sup>)

Facilitates long-term blastocyst storage.

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

Global Product Number	Order Number	Volume mL
G26738	K-SIBF-5000	3 x 20

### Usage

The kit is used to cryopreserve blastocysts on day 5 or 6 using a slow-freeze technique.



## Blastocyst Thawing Kit

Used to protect human blastocysts during thawing and rehydration stages.

### 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<sup>-3</sup>)

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.

### 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<sup>-3</sup>)

Enables successful vitrification of blastocysts.

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

Global Product Number	Order Number	Volume mL
G49621	K-SIBV-5000	3 x 20 & 1 x 10

### 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

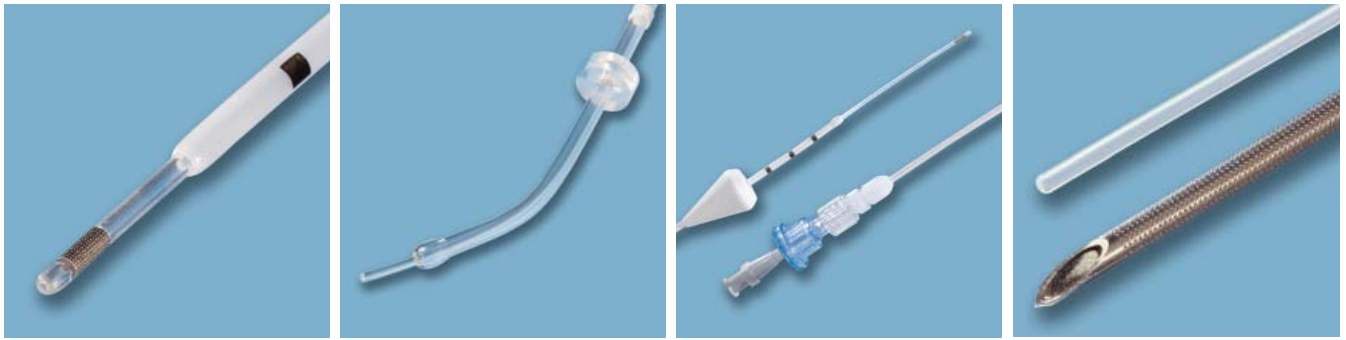
pH (in air): 7.3–7.5  
Osmolarity: 285–295 mOsm/kg  
MEA: ≥ 80%  
Endotoxins: < 0.4 EU/mL  
Shelf Life: 8 weeks from date  
of manufacture  
Sterile: Filtered (SAL 10<sup>-3</sup>)

Global Product Number	Order Number	Volume mL
G49626	K-SIBW-5000	3 x 20

### 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.

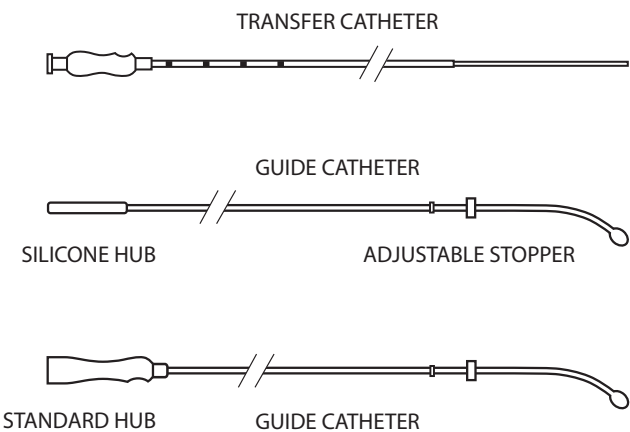
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## Sydney IVF Embryo Transfer Catheter Sets

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.



Global Product Number	Order Number	Guide Catheter Fr	Guide Catheter Length cm	Transfer Catheter Fr	Transfer Catheter Length cm	Description
<b>Catheter Sets</b>						
Silicone Hub						
G20683	K-JETS-6019-SIVF	6.6	16.7	2.8	23	catheters packed assembled
Polycarbonate Hub						
G18740	K-JETS-7019-SIVF	6.6	17.3	2.8	24	catheters packed separately
<b>Components</b>						
G48344	K-JET-7002-SIVF					malleable obturator to fit K-JETS-7019-SIVF





## 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.

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



## Soft-Trans Embryo Transfer Catheter Sets

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

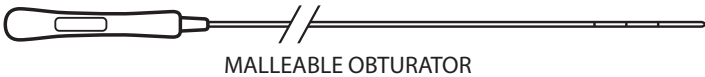
- The soft, flexible transfer catheter is designed to facilitate catheter placement.
- A malleable obturator is available, which can be formed to facilitate placement in patients with a difficult cervix.
- Closed-end trial catheter allows assessment of cervix prior to embryo transfer.



TRANSFER CATHETER



GUIDE CATHETER



MALLEABLE OBTURATOR



TRIAL CATHETER

Global Product Number	Order Number	Guide Catheter Fr	Guide Catheter Length cm	Transfer Catheter Fr	Transfer Catheter Length cm	Description
G20195	K-SOFT-5000	7.0	15.4	4.7	23.1	consists of transfer catheter and guide catheter
G26662	K-SOFT-5000-TC	7.0	15.4	4.7	23.1	contains transfer and guide catheter and trial catheter
G26669	K-SOFT-5000-MO	7.0	15.4	4.7	23.1	contains transfer and guide catheter and malleable obturator

## Soft-Trans Embryo Transfer Catheter Components

Global Product Number	Order Number	Guide Catheter Fr	Guide Catheter Length cm	Transfer Catheter Fr	Transfer Catheter Length cm	Description
<b>Components</b>						
G20197	K-SOFT-5100	-	-	4.7	23.1	embryo transfer catheter only
G49406	K-SOFT-4018	-	-	4.0	18.0	malleable obturator only
G49409	K-SOFT-4723	-	-	4.7	23.0	trial catheter only
G20481	K-SOFT-5010	7.0	15.4	-	-	guide catheter only
G20370	K-SOFT-5000-ST	7.0	11.4	4.7	19.1	embryo transfer catheter and guide catheter
G49407	K-SOFT-4014	-	-	4.0	14.0	malleable obturator only
G26151	K-SOFT-5020	7.0	15.4	4.7	23.1	embryo transfer catheter and guide catheter
G29638	K-SOFT-5510	7.0	15.4	-	-	guide catheter only
G20312	K-SOFT-1000	-	-	4.7	22.1	transfer catheter only



## 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.



Global Product Number	Order Number	Guide Catheter Fr	Guide Catheter Length cm	Transfer Catheter Fr	Transfer Catheter Length cm	Support Cannula
Sets with Transparent Polyethylene Guiding Catheter						
G17932	K-J-SPPE-681200	6.8	12	4.4	19.7	no
G17933	K-J-SPPE-681700	6.8	17	4.4	24.7	no
G17934	K-J-SPPE-681710	6.8	17	4.4	24.7	yes

EchoTip Sets with Support Cannula						
G18954	K-J-SPPE-681210-ET	6.8	12	4.4	19.7	yes
G18955	K-J-SPPE-681710-ET	6.8	17	4.4	24.7	yes

Global Product Number	Order Number	Fr	Length cm	Description
Optional Malleable Obturators (Not Illustrated)				
G17342	J-SP-201320	4.4	14.7	stainless steel malleable obturator for use with 12 cm guide catheter
G17260	J-SP-201820	4.4	19.7	stainless steel malleable obturator for use with 17 cm guide catheter



## 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.

Global Product Number	Order Number	Guide Catheter Fr	Guide Catheter Length cm	Transfer Catheter Fr	Transfer Catheter Length cm
G46172	K-SPEC-681710-ET	6.8	17	4.4	26.5



## Flushing Catheters

Used for instillation of saline or culture medium.

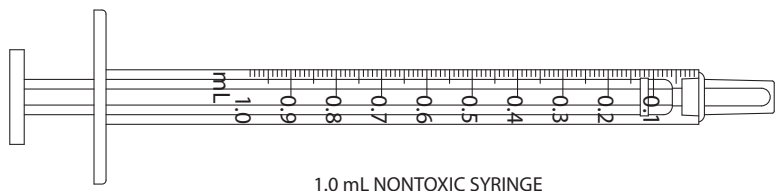
- Sideport design allows retrograde flushing of medium.
- An adjustable silicone stopper can be preset for appropriate depth.

Global Product Number	Order Number	Fr	Length cm	Unit of Sale
G18952	J-IUIC-351300-CE	3.5	13	box of 20
G18953	J-IUIC-352000-CE	3.5	20	box of 20



## Nontoxic Syringe

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



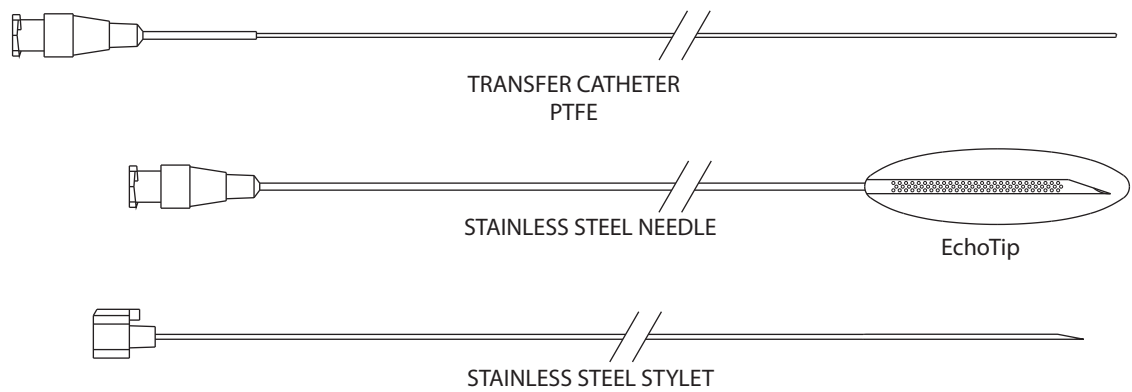
Global Product Number	Order Number	Unit of Sale
G19871	K-ATS-1000	box of 25 individually packed 1.0 mL syringes



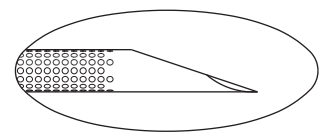
# Transmyometrial Embryo Transfer– Towako Sets

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

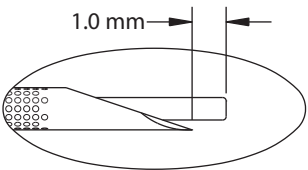
EchoTip® band enhances visualization of the catheter tip when used with ultrasonic imaging equipment.



Global Product Number	Order Number	Needle gage	Needle Length cm
G29641	K-TTET-18-32.5-TOWAKO	18.0	32.5
G18742	K-TTET-19-32.5-TOWAKO	19.0	32.5



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

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### REF3:

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## Notes





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