

Food and Drug Administration 10903 New Hampshire Avenue Document Control Center - WO66-G609 Silver Spring, MD 20993-0002

May 6, 2016

Willian A. Cook Australia Pty Ltd Gordana Pozvek Senior Regulatory Affairs Specialist 95 Brandl Street Brisbane Technology Park, Eight Mile Plains Brisbane, QLD 4113, Australia

Re: K152717

Trade/Device Name: Sydney IVF Blastocyst Cryopreservation Kit

Sydney IVF Blastocyst Thawing Kit

Regulation Number: 21 CFR 884.6180

Regulation Name: Reproductive Media and Supplements

Regulatory Class: Class II Product Code: MQL Dated: April 6, 2016

Received: April 8, 2016

Dear Gordana Pozvek,

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR

Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Benjamin R. Fisher -S

Benjamin R. Fisher, Ph.D.
Director
Division of Reproductive, Gastro-Renal,
and Urological Devices
Office of Device Evaluation
Center for Devices and Radiological Health

Enclosure

Attachment 2-2

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

Form Approved: OMB No. 0910-0120 Expiration Date: January 31, 2017 See PRA Statement below.

510(k) Number (if known)
K152717
Device Name Sydney IVF Blastocyst Cryopreservation Kit
ndications for Use (Describe) Sydney IVF Blastocyst Cryopreservation Kit is intended for use in assisted reproduction technologies for cryopreservation of blastocysts.
Type of Use (Select one or both, as applicable)
Prescription Use (Part 21 CFR 801 Subpart D) Over-The-Counter Use (21 CFR 801 Subpart C)

This section applies only to requirements of the Paperwork Reduction Act of 1995.

CONTINUE ON A SEPARATE PAGE IF NEEDED.

DO NOT SEND YOUR COMPLETED FORM TO THE PRA STAFF EMAIL ADDRESS BELOW.

The burden time for this collection of information is estimated to average 79 hours per response, including the time to review instructions, search existing data sources, gather and maintain the data needed and complete and review the collection of information. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden, to:

Department of Health and Human Services Food and Drug Administration Office of Chief Information Officer Paperwork Reduction Act (PRA) Staff PRAStaff@fda.hhs.gov

"An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB number."

Attachment 2-3

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

Form Approved: OMB No. 0910-0120 Expiration Date: January 31, 2017 See PRA Statement below.

510(K) Number (IT Known)
K152717
Device Name Sydney IVF Blastocyst Thawing Kit
Indications for Use (Describe) Sydney IVF Blastocyst Thawing Kit is intended for use in assisted reproduction technologies for thawing of cryopreserved blastocysts.
Type of Use (Select one or both, as applicable)

This section applies only to requirements of the Paperwork Reduction Act of 1995.

CONTINUE ON A SEPARATE PAGE IF NEEDED.

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WILLIAM A. COOK AUSTRALIA PTY. LTD.

95 BRANDL STREET
BRISBANE TECHNOLOGY PARK, EIGHT MILE PLAINS
BRISBANE, QLD 4113, AUSTRALIA
PHONE: 1800.7777.222 FAX: +61.7.3841.1288
WWW.COOKMEDICAL.COM

Special 510(k) Summary – K152717

SUBMITTED BY:

William A. Cook Australia Pty Ltd 95 Brandl Street Eight Mile Plains QLD 4113 Australia

Contact Person: Gordana Pozvek Ph.D.
Tel: +61 (7) 3841 1188
Fax: +61 (7) 3841 3905

E-mail: Gordana.Pozvek@CookMedical.com

Date Prepared: May 5, 2016

DEVICE IDENTIFICATION:

Trade Name: Sydney IVF Blastocyst Cryopreservation Kit (K-SIBF-5000) &

Sydney IVF Blastocyst Thawing Kit (K-SIBT-5000)

Common Name: Cryopreservation & Thawing Kits

Regulation No: 21 CFR 884.6180, Reproductive Media & Supplements

Regulatory Class: II

Product Code: MQL - Media, Reproductive

PREDICATE DEVICE:

Sydney IVF Blastocyst Cryopreservation Kit & Sydney IVF Blastocyst Thawing Kit (**K030441**), cleared August 29, 2003.

DEVICE DESCRIPTION:

The Sydney IVF Blastocyst Cryopreservation and Thawing Kits are intended for cryopreservation and thawing of human blastocysts. The Sydney IVF Blastocyst Cryopreservation and Thawing Kits provide users with the ability to cryopreserve supernumerary embryos created during the *in vitro* fertilization procedure and then to thaw them for use at a future point in time.

The Sydney IVF Blastocyst Cryopreservation Kit consists of three solutions containing increasing concentrations of cryoprotectant (both glycerol and sucrose are used). These buffers were designed to be used sequentially in order to remove water from embryos prior

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Premarket Notification Submission - Special 510(k)

to cryopreservation. The removal of water prevents ice crystal formation inside the embryo thereby limiting damage and improving viability. It contains 12 mg/mL Human Serum Albumin (HSA) and 0.01mg/mL Gentamicin. Sydney IVF Blastocyst Cryopreservation Kit is designed for use with Sydney IVF Blastocyst Thawing Kit.

The Sydney IVF Blastocyst Thawing Kit consists of four solutions with decreasing concentrations of cryoprotectants (sucrose) which are used sequentially throughout the thawing process. It contains 12 mg/mL Human Serum Albumin (HSA) and 0.01mg/mL Gentamicin. It is designed for use with Sydney IVF Blastocyst Cryopreservation Kit.

Sydney IVF Blastocyst Cryopreservation and Thawing Kits are provided in glass vials with Fluorotec[®] coated rubber stoppers held in place with a tamper evident seal. Sydney IVF Blastocyst Cryopreservation Kit is packaged in a carton box containing 3 x 20mL solutions per kit. The Sydney IVF Blastocyst Thawing Kit is packaged in a carton box containing 4 x 20mL solutions per kit.

INDICATIONS FOR USE:

Sydney IVF Blastocyst Cryopreservation Kit is intended for use in assisted reproduction technologies for cryopreservation of blastocysts.

Sydney IVF Blastocyst Thawing Kit is intended for use in assisted reproduction technologies for thawing of cryopreserved blastocysts.

The indications for use statements are identical to the predicate device.

COMPARISON OF TECHNOLOGICAL CHARACTERISTICS WITH THE PREDICATE DEVICE:

The Sydney IVF Blastocyst Cryopreservation Kit & Sydney IVF Blastocyst Thawing Kit and the predicate device (**K030441**) have the same fundamental technology and similar technological characteristics including the following:

- Similar chemical formulation
- Similar performance specifications:
 - pH 7.3 7.5
 - Osmolality 285 295 mOsm/kg
 - Endotoxin < 0.40 EU/mL
 - A Mouse Embryo Assay (MEA) is used to screen the product for embryo toxicity.
- Same method of manufacturing process aseptic filtration.
- Same packaging borosilicate type 1 vials with FluroTec coated stopper and tamper evident seals.

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The modification that was made to the predicate device was a change in shelf-life from 8 weeks at 2-8°C (for predicate device) to 20 weeks at 2-8°C. In addition, minor changes were made to the formulation and specifications.

The technological characteristics of Sydney IVF Blastocyst Cryopreservation Kit & Sydney IVF Blastocyst Thawing Kit are comparable to the predicate device.

PERFORMANCE DATA:

The product specifications for the Sydney IVF Blastocyst Cryopreservation Kit & Sydney IVF Blastocyst Thawing Kit and the predicate device are the same regarding sterility, pH, osmolality and endotoxin.

The MEA is used for both the predicate and the proposed device but the test assay and specification has changed from 1-cell MEA (96hrs) with \geq 75% of control that develop to blastocyst (predicate) to 2-cell MEA (72hrs) with \geq 80% of control that develop to blastocyst.

Stability & Shelf Life

The shelf-life of Sydney IVF Blastocyst Cryopreservation Kit & Sydney IVF Blastocyst Thawing Kit has been validated in stability studies to 20 weeks at 2 - 8°C. Stability tests included MEA, endotoxin, osmolality, pH, sterility and the concentrations of the amino acid proline and the HSA degradation by-product ammonia.

CONCLUSION:

The results of the testing provide reasonable assurance that the Sydney IVF Blastocyst Cryopreservation Kit & Sydney IVF Blastocyst Thawing Kit is as safe and effective as the predicate device and supports a determination of substantial equivalence.