

The uideo protocol is available here



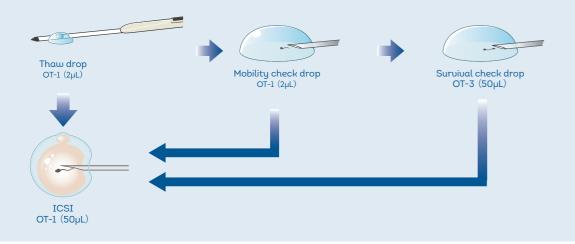
02 Take out Cryotop[®] from LN and air-thaw for 5 seconds.

Immerse the tip of Cryotop[®] in the Thaw drop (OT-1) on the dish. If sperm motility is confirmed, perform ICSI immediately.

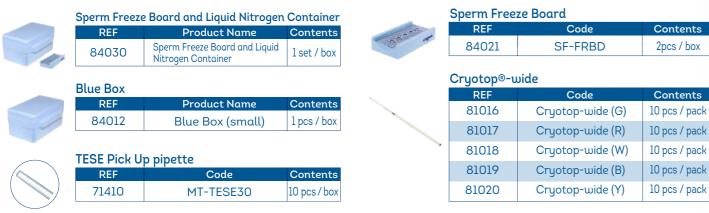
OIf sperm are immotile:

Check the motility in the Mobility check drop (OT-1). Perform ICSI after confirmation of sperm motility. OIf sperm remained immotile in the Mobility check drop:

Check the viability in the Survival check drop (viable sperm exhibit swelling of the sperm tail by Hypo-osmotic swelling Test, HOST). Perform ICSI after confirmation of sperm motility.



RELATED PRODUCTS



Specification may change without pre-notice for purpose of product improvement.

PRODUCT CATALOGUE Oligospermia Cryopreservation





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Quality Results for Life

- Kit for cryopreservation and thawing of low-count sperm using Cryotop®-wide.
- O The cryoprotectant in the kit is sucrose, and it does not contain glycerol.
- O The assessment of sperm motility and viability can be conducted soon after thawing.
- O Cryotop[®]-wide is available for individual purchase in packs of 10 pieces (REF. 81016, 81017, 81018, 81019, 81020).

Collaborative Development : Dr. Atsushi Tanaka / St. Mother Hospital Infertility Clinic

REF	Code	Contents
92231	Oligospermia Cryo Kit	Cryotop®-wide (white)2 pcsOC-1 (Collagenase)0.5 mL×1OC-2 (Sperm Medium)0.5 mL×1OC-3 (Sperm Freeze (SF4))0.5 mL×1
92232	Oligospermia Thawing Kit	OT-1 (Sperm Medium) 0.5 mL×1 OT-2 (Pentoxifylline) 0.5 mL×1 OT-3 (HOST Solution) 0.5 mL×1 OT-4 (PVP3%) 0.5 mL×1

COMPONENTS

Calcium Chloride / Collagenase / Gentamicin / Glucose / HEPES / Human serum albumin / Magnesium sulfate / Pentoxifylline / Polyvinylpyrrolidone / Potassium chloride / Potassium phosphate / Sodium bicarbonate / Sodium chloride / Sodium lactate / Sodium pyruvate / Sucrose

QUALITY CONTROL

OC-1/OC-2/OC-3/ OT-1 / OT-2 / OT-3 / OT-4 pH 7.2-7.6 / Osmolarity / Endotoxin <0.25EU/mL / Sterility Test / Sperm Survival (24h) ≥80% / Sperm Penetration Assay ≥3 Storage : 2-8°C Shelf Life : 6 months

Cryotop®-wide (white)

Sterility Test / Endotoxin ≤0.5EU/device / Mouse Embryo Assay ≥80% / Appearance and cleanliness / Tensile test for the sheet part \geq 5N / Sterilized Shelf Life : 3 years

RESULT

Classified Spermatozoa	No. of patient	No. of ET cycle	Sperm ^{#1} colleted rate	Sperm ^{*2} survival rate	fertilization rate (N)	Average number of embryos transferred (min-max)	Average number of frozen embryos (min-max)
Frozen ejaculated spermatozoa	28	60	97.8% [510/521]	87.1% [444/510]a	52.7% [224/425]b	1.52 (1-2)	0.72 (0-1)
Frozen TESE spermatozoa	20	18	92.7% [152/164]	60.5% [92/152]a'	37.2% [29/78]b'	1.73 (1-2)	0.53 (0-1)
Fresh ejaculated spermatozoa	31	107	No data	No data	52.2% [302/579]	1.41 (1-2)	1.83 (0-4)
a-a' and b-b' P<0.05 (Chi-square test) %1 collected sperm / warmed sperm						ita from St. Mother Hos	pital Infertility Clinic

REFERENCE

O Endo et al. Clinical and neonatal outcomes of individually vitrified human sperm with Cryotop and Cell Sleeper. Cryobiology. 2022 Oct:108:78-81.

PROTOCOL

Collection and Freezing of Low-count Sperm

01 Make a drop of OC-1 (Collagenase) onto the glass bottom and apply the collected seminiferous tubules into the drop. Finely mince the seminiferous tubules into small pieces using a 27G injection needle.

*Proceed directly to Step **02** for ejaculated sperm.

- and the other is a drop designated for sperm collection (1 µl). Cover the drops with Hypure® Oil and warm the dish for 30 minutes in a 37°C incubater. Transfer the sperm from the OC-1 drop to the OC-2 to select the high-quality sperm. It is advisable to adjust the size and shape of the drop to facilitate the collection of sperm using microtools.
- **03** The high-quality sperm is collected in the OC-2 drop for the next procedure.

- **04** Position the Cryotop[®]-wide under an inverted microscope and apply a 2 µL drop of OC-3 (Sperm Freeze). prepared to room temperature (20-25°C).
- 05 Fill the Blue Box for Sperm (REF. 84012) with liquid nitrogen (LN), and float a Sperm Freeze Board (REF. 84021).
- **06** Collect the sperm from the OC-2 drop from its tail-side to the OC-3 drop on the Cryotop®-wide, using a TESE Pick Up pipette.

- **07** Immediately place the Cryotop[®]-wide on a Sperm Freeze Board (REF. 84021) and expose it to the uppor of LN (2 cm from the liquid surface) for 2 minutes to freeze.
- **08** After 2 minutes, immerse the Cryotop[®] into LN, cap it with its cover straw and store in a tank.



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