Andrology

SepaSperm®

- For density-gradient centrifugation for sperm separation and washing.
- Wash Solution is equilibrated with HEPES.
- No animal derivative, free from Protein or antibiotics.

CE 0086

	Order Number	Code	Contents
SepaSperm® Solution	92113	SESS-100	100mL
SepaSperm® Wash Solution	92131	SEWS-100	100mL
	92133	SEWS-50	50mL
SepaSperm® Lower Layer	92124	SELL-50	50mL
SepaSperm® Middle Layer	92126	SEML-50	50mL
SepaSperm® Upper Layer	92128	SEUL-50	50mL

COMPONENTS

Calcium chloride / Dextran / Glucose / HEPES / Magnesium sulfate / Potassium chloride / Potassium phosphate / Silica particles / Sodium bicarbonate / Sodium chloride / Sodium lactate / Sodium pyruvate

QUALITY CONTROL

pH 7.2-7.6 / Osmolarity 270-350 mOsm/kg / Endotoxin <0.25EU/mL / Mouse Embryo Assay ≥80% / Sperm Survival(24h) ≥60% / Sperm Penetration >3 / Sterile Filtration / Sterility Test

Storage: 2-8°C / Shelf Life: 120 days

KITAZATO
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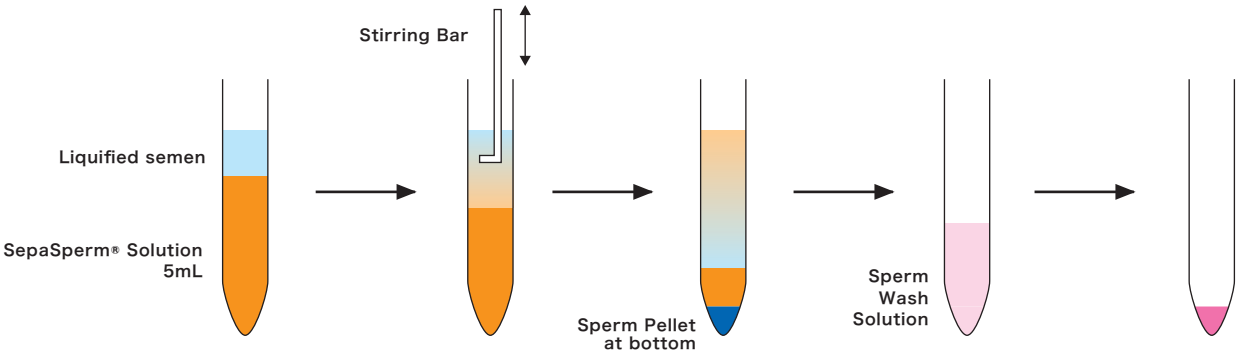
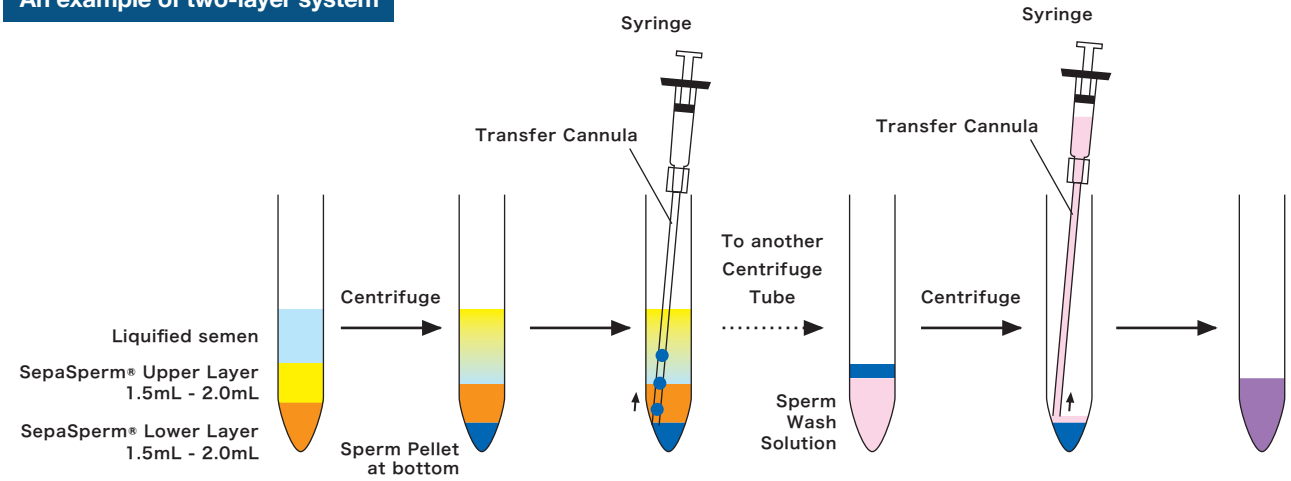
- Specification may change without pre-notice for purpose of product improvement.
- Kitazato Logo and SepaSperm® are trade mark of KITAZATO.

An example of single-layer gradient system



1. Take out SepaSperm®Solution (Code,SESS) from fridge and dispense in a 15mL centrifuge tube (Code.FALCON 2099) and pre-warm at 37°C.
2. Check the volume of liquified semen in a Sperm Container (Code.Sperm-168RS) with 5mL pipettes, etc. Check the status of semen with Makler Counting Chamber (Code.200001) or with Disposable Sperm Counting Chamber (Code. Sp-ace).
3. When semen is 2-3mL, place all the volume onto the prepared layer of SepaSperm®Solution. Stir the semen and the SESS up and down at 2cm range from their border line.
4. Centrifuge the tube at 400 x g for 20-30 minutes with centrifugal machine.
5. After centrifugation, remove the supernatant with Pasteur pipettes (Code.MT-PSH), etc. carefully not to ruin the sperm pellet.
6. Dispense 3-5mL of Sperm Wash Solution (SEWS) onto the pellet and re-suspend it. Centrifuge the tube at 300 x g for 5-10 minutes to wash.
7. Remove the supernatant carefully with Pasteur pipette (Code. MT-PSH), etc., so the final volume will be 0.5mL. Use the sperm according to your needs.

An example of two-layer system



1. Make layers of different sperm preparation solution in the next order. (From bottom to up)
   (1)SepaSperm® Lower Layer 1.5mL～2.0mL
   (2)SepaSperm® Upper Layer 1.5mL～2.0mL
   (3)Liquified semen
2. Centrifuge the tube at 400 x g for 20 minutes. (sperm separation)
3. Set the syringe on the upper part of Transfer Cannula and aspirate sperm pellet.
4. Remove the syringe from the Transfer Cannula. Dispense 3.0-5.0mL of Sperm Wash Solution into a new centrifuge tube containing the transferred sperm pellet for sperm washing.
5. Centrifuge the tube at 400 x g for 5 minutes. Remove the supernatant leaving only the sperm pellet.
6. Dilute and adjust the sperm concentration with appropriate solution according to your needs.