PRODUCT CATALOGUE

SepaSperm®

- For sperm preparation by the density gradient centrifugation.
- Free from animal derivatives.
- SepaSperm® Wash Solution is HEPES buffered.

	REF	Code	Contents
SepaSperm® Solution 100%	92143	SE100G-100	100mL
SepaSperm® Solution 80%	92073	SE80G-100	100mL
	92079	SE80G-50	50mL
SepaSperm® Solution 60%	92074	SE60G-100	100mL
	92080	SE60G-50	50mL
SepaSperm® Solution 40%	92075	SE40G-100	100ml
	92081	SE40G-50	50ml
SepaSperm® Wash Solution	92147	SEWSG-100	100ml

COMPONENTS

Calcium chloride / Gentamicin sulfate / Glucose / HEPES / Magnesium sulfate / Potassium chloride / Potassium phosphate / Recombinant human albumin / Silica particles / Sodium bicarbonate / Sodium chloride / Sodium lactate / Sodium pyruvate

QUALITY CONTROL

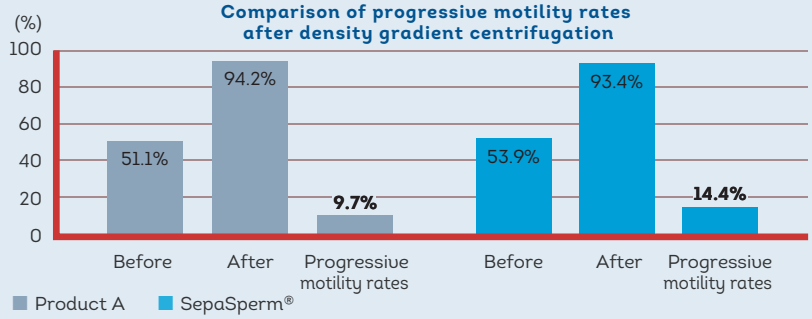
pH 7.2-7.6 / Osmolarity 270-300 mOsm/L / Endotoxin <0.25EU/mL / Mouse Embryo Assay ≥80% / Sperm Survival (24h) ≥80% / Sperm Penetration ≥3 / Sterility Test

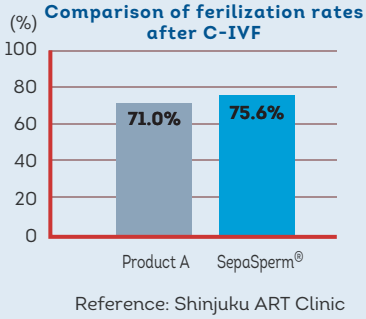
Storage: 2-8℃

Shelf life: 18 months

RESULT

Results of SepaSperm®





Reference: Shinjuku ART Clinic

	N	Sperm Concentration (×10⁶/ml)	Sperm motility rate (%)	Sperm motility recovery rate (%)
Semen	5	128.7±40.0	58.7±19.7	—
Prepared with SepaSperm® Solution	5	126.5±50.4	91.5±6.5	26.6±7.8
Prepared with Product A	5	114.7±55.1	90.3±7.9	22.4±5.5

Numbers in mean±SD

Reference: Kusuhara Women's Clinic

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

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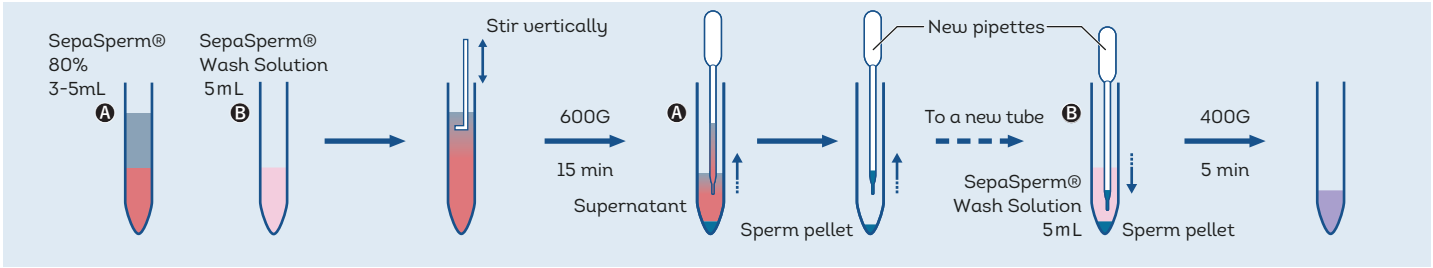
An example of single-layer gradient centrifugation

1. Bring all solutions to room temperature (20-25°C) before use. Prepare two 15mL centrifuge tubes.
   One of them with 3-5mL of SepaSperm® 80%. Ⓐ The other with 5mL of SepaSperm® Wash Solution. Ⓑ
2. Check the semen volume with a 5mL pipette or similar and evaluate the semen sample with a sperm count chamber.
3. Pipette semen on top of the prepared SepaSperm® 80%. Stir 2cm vertically around the layers between the semen and SepaSperm® 80%
4. Centrifuge for 15 minutes at approximately 600 x g. (Separation of sperm and seminal fluid)
   Depending on the state of collected sperm, adjust xg or centrifugation time accordingly.
5. After centrifugation, remove the supernatant with a new pipette.
6. Add 5mL of SepaSperm® Wash Solution (SEWS) to the sperm pellet and resuspend. Centrifuge at 400 x g for 5 minutes for washing.
   Depending on the state of collected sperm, adjust xg or centrifugation time accordingly.
7. Remove the supernatant leaving the sperm pellet only. Dilute the sperm pellet with SepaSperm® Wash Solution according to the following treatment.



An example of two-layer density gradient centrifugation

1. Bring all the solutions to room temperature (20-25°C) before use. Prepare two 15mL centrifuge tubes.
   One of them with layers in the next order from bottom to up ;
   ❶SepaSperm® 80% 1.5-2.0mL ❷SepaSperm® 40% 1.5-2.0mL ❸Liquified semen
   The other with 5mL of SepaSperm® Wash Solution.
2. Check the semen volume with a 5mL pipette or similar and evaluate the semen sample with a sperm count chamber.
3. Centrifuge the tube at 600 x g for 15 minutes. (Separation of sperm and seminal fluid)
   Depending on the state of collected sperm, adjust xg or centrifugation time accordingly.
4. Aspirate the sperm pellet.
5. Transfer the sperm pellet to a new centrifuge tube prepared with 5mL of SepaSperm® Wash Solution, and mix well.
6. Centrifuge at 400 x g for 5 minutes for washing.
   Depending on the state of collected sperm, adjust xg or centrifugation time accordingly.
7. Remove the supernatant leaving the sperm pellet only. Dilute the sperm pellet with SepaSperm® Wash Solution according to the following treatment.