



Three-Layer Mini-PureCeption® Gradient Procedure

(Recommended for use when semen has less than 5×10^6 total motile cells, i.e., severe oligozoospermia)

1. Bring all reagents to 37°C before use. (The PureCeption solutions and Quinn's® Sperm Washing Medium (ART-1005/ART-1006) should be stored at 2° to 8°C until use.
2. Make a PureCeption solution of 60% by mixing 1 mL of the Pureception Lower Phase 80% solution (ART-2080) with 1 mL of the Pureception Upper Phase 40% solution (ART-2040).
3. Pipette 0.3 mL of 80% PureCeption into the bottom of a sterile, 15 mL conical centrifuge tube. Using a new pipette, carefully overlay the 80% layer with 0.3 mL of 60% PureCeption. Then, complete the column by changing pipettes and carefully overlaying the 60% layer with 0.3 mL of 40% PureCeption.
4. Semen samples should undergo a standard one-step wash prior to being layered on a mini-column.
 - To wash: Dilute one volume of raw liquefied semen sample with two volumes of Quinn's Sperm Washing Medium. Centrifuge at 200 x g for 10 minutes. Remove the supernatant and resuspend the sperm pellet in fresh medium to a final volume of 0.3 mL. The washed specimen is then ready to overlay on the prepared mini-PureCeption gradient.
5. Centrifuge the gradient at 300 x g for 45 minutes.
6. Using a pipette or syringe, carefully aspirate the gradient material without disturbing the sperm pellet, leaving a small amount of PureCeption over the sperm pellet. Aspirate from the top downward, always keeping the pipette tip just below the fluid surface. Transfer the sperm pellet in this residual medium to a clean conical centrifuge tube for further washing.
7. Using a syringe or pipette, add 2-3 mL of Quinn's Sperm Washing Medium and resuspend the pellet by gently tapping the tube with your fingers.
8. Centrifuge at 500 x g for 5 minutes to wash away residual PureCeption.
9. Carefully remove the supernatant and resuspend the sperm pellet in a suitable volume of bicarbonate buffered medium such as Quinn's Advantage Fertilization Medium (ART-1020) for IVF or ICSI.

Reference: Ord T, Patrizio P, Marelllo E, Balmaceda JP, and Asch RH. Mini-Percoll: a new method of semen preparation for IVF. *Human Reprod*, 5:987-989 (1990).

Related Products

Part Number	Description	Unit Size
ART-1005	Quinn's® Sperm Washing Medium	12 x 12 mL
ART-1006	Quinn's® Sperm Washing Medium	100 mL
ART-1020	Quinn's Advantage® Fertilization (HTF) Medium	50 mL
ART-1021	Quinn's Advantage® Fertilization (HTF) Medium	100 mL
ART-2040	PureCeption 40% Upper Phase	100 mL
ART-2080	PureCeption 80% Lower Phase	100 mL



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