

R18S3

(medium for mouse sperm cryopreservation)



Cat. No. ARK-R-R082

Last update: 2023/4/18

www.cosmobiousa.com

*Store at room temperature.

Use up soon after opening, due to keeping the product quality.

Freezing

1. Pick up the cauda epididymis from male C57BL/6J mouse, remove adherent adipose tissue and blood, and put two cauda epididymis into 100 μ L of R18S3 on a petri dish.
2. Fix the cauda epididymis with forceps and cut the ductus epididymis about ten times. After that, shake the petri dish for 1 min and suspend medium to make sperm equal.
3. Connect the straw with 1 mL syringe. Sealing protocol is as follows.
 - Aspirate 100 μ L of HTF (used as a weight) and prepare 1 cm airspace at the edge of straw.
 - Use above syringe and aspirate 10 μ L of sperm-suspension prepared at step (2). And then prepare 1 cm airspace at the edge of straw.
 - Seal the edge of straw with heat sealer.
 - Detach the straw from the syringe and seal another edge of straw.
4. Put the sealed straw into float, with turning sperm-suspension layer to the bottom. Put the straw-float on the surface of liquid nitrogen in N₂ tank. Keep it stand for 15 min.
5. After 15 min, soak it into liquid nitrogen.

Thawing

1. Pick up the freezing straw from liquid nitrogen, and soak it into warm water at 37 °C . Keep it stand for 15 min.
2. After 15 min, pick up the straw from warm water and wipe it with some papers. After that, cut the both edges of straw and drop the sperm-suspension on the petri dish.
3. Pick up 2 μ L of sperm-suspension and apply it into 200 μ L HTF, which is pre-warmed in incubator (37 °C , 5% CO₂ in air) beforehand. After 1 hour from above treatment, observe the motility and active level.



COSMO BIO USA
2792 Loker Ave West, Suite 101
Carlsbad, CA 92010, USA
email: support@cosmobiousa.com
URL: www.cosmobiousa.com
Phone: (+1) 760-431-4600