COSMO BIO CO., LTD.

KSOM
(for in vitro culture of mouse oocyte)

Cat. No.	CSR-R-B074	Size:	10 *2 ml
	CSR-R-B075		10 *5 ml

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*Store at 4℃ until use. As a quality degrades after opening, use up all contents at one time.

Superovulation treatment – in vitro fertilization or mating

1. Proceed superovulation treatment to mature female mouse (8-12 weeks old) by intraperitoneal administration of PMSG and hCG (each 7.5IU/body) at 48 hours.
2. In the case of oviduct perfusion, make live with male mouse after administration of hCG, check copulation plug next day to confirm presence of mating. After confirmation of mating, oocyte of pronuclear stage can be collected in a day and 2-cell stage embryo can be the next day after plug checking.
3. In case of in vitro fertilization, collect eggs from ampulla of oviduct 15-17 hours after administration of hCG and proceed.
   (For further details on in vitro fertilization, refer to instructions of HTF)

Preparations

1. Prepare 3 drops of 100μL KSOM on the dish and coat with liquid paraffin.
   Left to stand in 5% of CO_2 incubator and equilibrate with the gas.
2. Sterilize all dissecting devices with alcohol.
3. Apart from drops on the dishes described above, prepare KSOM for perfusion in advance and warm to 37℃ .

Collection of oocytes (oviduct perfusion)

1. Euthanize female mouse after confirmation of mating and resect uterus, ovary and part of fat with scissors and tweezers. Cut off the oviduct on filter paper and remove bloods.
2. Put in a glass capillary or perfusion needle in the tubal fimbriae of the oviduct after collection and perfuse with KSOM.
3. Introduce oocyte into the drop of KSOM.
   *The 2-cell stage embryos obtained from the process are just possible to apply to in vitro culture in the drop of KSOM without changing culture medium.

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