COSMO BIO CO., LTD.

mWM
(for *in vitro* culture of mouse embryos)

Cat. No. CSR-R-B080

CSR-R-B081

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* Keep them at 4℃ until use. Use all the media once opened and avoid using the remaining residue as it is not so stable for repetitive use.
* mWM contains 2-mercapto ethanol (CAS number; 60-24-2), quasi-pharmaceutical poisonous substance and need to handle in compliance with the law.

A: Superovulation induction – in vitro fertilization or mating

Collect the embryos of the required stage by oviduct perfusion after mating (Please refer to the datasheet of mR1ECM (Cat No. #CSR-R-M174 or #CSR-R-M191) .

B : Preparation of Drops

1. Place 3 drops of mWM (100µL each) into a dish and cover them with liquid paraffin. Incubate (5%CO_2) for at least 30 minutes to equilibrate with gas.
2. Disinfect all dissectors with alcohol
3. Heat mWM for flushing to 37℃ before operation apart from the dish described in 1.

C: Collection of embryos (perfusion flushing in oviduct)

1. Euthanize a female mouse confirmed its mating and pull out the uterus, ovary, and part of fat using scissors and forceps. Cut out only the oviduct on a filter paper, and remove blood or other junk materials.
2. Insert glass capillary or flush needle to fimbria of the collected oviduct, and flush the mWM for perfusion.
3. Transfer the embryos into the mWM drops previously described in B.
   * 2-cell-stage embryos collected are possible to apply their culture *in vitro* until the stage of blastcyst without needs of medium exchange.

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