

# CARD HyperOva<sup>®</sup> for RAT

Cat. No.	KYD-FR-003	Size:	1.2 mL
	KYD-FR-003-X5	Size:	5*1.2 mL

Last updated:2024/9/12

[www.cosmobiousa.com](http://www.cosmobiousa.com)



## CARD HyperOva<sup>®</sup> for RAT

### Background

CARD HyperOva<sup>®</sup> for RAT (Cat No. KYD-FR-003, KYD-FR-003-X5) is a superovulation reagent that induces ovulation at higher efficiency when compared with superovulation with eCG/hCG. This is expected to lead to a significant reduction in the number of female rats required to provide oocytes, as well as a reduction in the number of rats used.

It is expected that this will make a significant contribution to Reduction, one of the 3Rs of animal experimentation (Replacement, Reduction, and Refinement)

CARD HyperOva<sup>®</sup> for RAT was developed by The Center for Animal Resources and Development (CARD), Kumamoto University, Japan.

### Storage

Store at -80°C to -20°C

### Note

For research use only.

Not for human consumption, medicinal use, or diagnostics.

Contains no harmful ingredients.

Do not consume or touch.

## Procedure

Please note: The administration volume is different depending on the age of rat.

**Day 1**  
9:00-11:00  
Procedure: 1.~3.

1. Remove CARD HyperOva for RAT from the freezer. Place the CARD HyperOva for RAT in an incubator or a water bath at 37 °C and let it thaw for 10 minutes.

2. The thawed reagent must be injected within an hour of thawing. Mix by inverting the tube gently several times. Then, draw the CARD HyperOva for RAT into a sterile syringe and inject into rat.\*

\*If white precipitate is visible, it still good for use. This is a naturally occurring protein, fibrin. It will not affect your experiment.

**Day 2**

3. Inject

- **0.2mL/rat (4-5 weeks old rat)**
- **0.3mL/rat (> 6 weeks old rat)**

of CARD HyperOva for RAT into the abdominal cavity.

**Day 3**  
16:30-17:30  
Procedure: 4.

4. Inject

- **20IU (4-5 weeks old rat)**
- **30IU (> 6 weeks old rat)**

of hCG\* into the abdominal cavity about 56 hours (54-56 hours) after administering CARD HyperOva for RAT.

\*Please prepare hCG separately.

**Day 4**  
9:00-  
Procedure: 5.

5. About 16 hours (16-18 hours) after the hCG injection, remove the swollen area of the oviduct from the rat, remove the cumulus-oocyte-complexes, and transfer to a medium such as CARD Rat IVF medium or CARD mHTF for in vitro fertilization.

[Medium used during in vitro fertilization]

- For frozen sperm : CARD Rat IVF medium
- For fresh sperm : CARD mHTF

## Reference

Takeo T, Nakao S, Mikoda N, Yamaga K, Maeda R, Tsuchiyama S, Nakatsukasa E, and Nakagata N, Optimized protocols for sperm cryopreservation and in vitro fertilization in the rat. Lab Anim. 2022, 51:256-274.

※ This data sheet may be revised in the future to include more detailed procedures.  
Please check the CBU website regularly for the latest information.



【Outside Japan】

2792 Loker Ave West, Suite 101  
Carlsbad, CA 92010, USA  
email: info@cosmobioua.com  
URL: www.cosmobioua.com  
Phone/FAX: (+1) 760-431-4600