

Bovine embryo washing operation

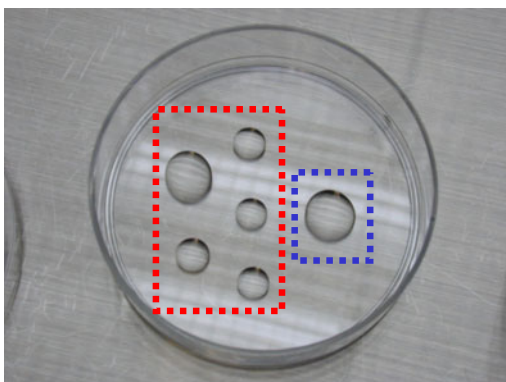
It is possible to conduct bovine embryo sexing with Loopamp Bovine Embryo Sexing Kit directly from the biopsy cells without any washing procedure. However by washing the cells, it can prevent the mixing with sperm, and remove DNA or protein which might be adhered on the biopsy cells. Washing can prevent contamination and improve detection sensitivity. Here we will demonstrate an example of the washing procedure.



<Instruments and reagents>

- Petri dish (6cm diameter)
- PVA-PBS: 0.3% Polyvinylalcohol-PBS(-)
- D. W. (Sterilized)

<Procedure>

- 1) Spot PVA-PBS and D.W. (Sterilized) into petri dish (Figure). Do not add mineral oil on the spotted drops.
- 2) Wash the cells with each PVA-PBS drop for 3~5 times, and rinse them with D. W. (Sterilized) drop at the end. Put them into a micro-tube and add 6uL of Extraction Solution (EX) to conduct DNA extraction. Rinse the cells as fast as possible because the cells are vulnerable to the osmolarity from D.W.
- 3) It is recommended to change the glass capillary or pipette tips after the cells in biopsy buffer are transferred to PVA-PBS.
- 4) The amount of washing solution to be put into a micro-tube should be 6uL.



-  : PVA-PBS: 0.3% Polyvinylalcohol-PBS(-)
-  : D.W. (Sterilized)