Preparation of EmbryoSlide+ ic8 dishes

The EmbryoSlide+ ic8 dish is designed specifically for individual culture of embryos in the EmbryoScope+ and EmbryoScope 8 incubators.
The culture dishes hold up to 8 embryos each and are made of polystyrene certified for use in IVF procedures. They are delivered as individually packed, sterile dishes in convenient handling pouches. Double handling fins provide stable handling, and the barcode label ensures correct registration of patient information and improves the workflow.

Vitrolife recommends preparing the EmbryoSlide+ ic8 dishes a day before use. Prepare the dishes on a non-heated surface to avoid evaporation.
The procedure described below requires less than two and a half minutes per culture dish.

The EmbryoSlide+ ic8 dish

Embryos are cultured in centered microwells of individual wells in a small (20µl) volume covered by a common oil layer.

Each well carries a number from 1 to 8 for identification under a stereo microscope. Each well number corresponds to the well identification number in the EmbryoViewer software.

Four large rinsing wells are available outside the culture compartments. These special wells can be used during embryo handling (identified as A-D).

Each batch of EmbryoSlide+ ic8 dishes must pass our stringent MEA testing procedure before being release for sale as part of the Vitrolife quality assurance.

EmbryoSlide+ ic8 dish preparation

Prepare the EmbryoSlide+ ic8 dishes a day before use. Equilibrate minimum 6 hrs. Prepare one dish at a time to minimise the handling time of each dish.

The EmbryoSlide+ ic8 dishes should be prepared with cold medium and oil on a non-heated workbench to avoid evaporation of medium during preparation.

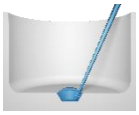
When they have been prepared, the culture dishes must equilibrate overnight before loading embryos into the microwells.

Use a stereo microscope to control the process.

The recommended procedure for preparing the culture dishes is outlined on the next page.

Step	Action

Remove the culture dish from the pouch.
Prepare the dishes with cold culture medium and oil on a non-heated workbench to avoid evaporation.
Prepare one dish at a time to minimise the handling time of each dish.



Fill all microwells with culture medium
Use a micropipette tip with a max. diameter of 200µm
One filling of the micropipette tip will suffice to completely fill eight microwells. Let the tip touch the side of the microwells during the procedure. This will help prevent bubble formation. Slightly overfill the microwell to create a convex meniscus.

Fill with 20µL culture medium into each wells using a standard pipette.
To speed up the loading time use a dispenser pipette or fill a standard pipette with 160 µl culture medium and distribute the amount of medium uniformly in all 8 wells.

Fill each rinsing well with max. 30 µL and min. 25 µL of culture medium
Again, to speed up the loading time use a dispenser pipette or fill a standard pipette with sufficient culture medium and distribute the amount of medium uniformly in all 4 rinsing wells.

Immediately load minimum 1.6 mL of culture oil into the reservoir
It is important to apply the oil overlay quickly to avoid evaporation of medium.
Make sure that all wells, including the rinsing wells, are covered with a confluent oil layer to eliminate evaporation of medium.

In case of any larger bubbles then push up with a micropipette and remove them with a standard pipette.

Cover with the lid and let equilibrate overnight. Minimum 6 hours.
Identify and remove any bubbles under a stereo microscope.

Attach the barcode label to the dedicated labelling area on the dish.
Make sure it's smoothly applied.

Load embryos into the center of the microwells.

Place the dish in the EmbryoScope+ or EmbryoScope 8 incubator and start image acquisition.

In case of a medium change:
From each well remove 15 µl old medium and add 15 µl new warm equlibrated medium. It is important to remove and add the medium in a constant flow and keep the tip of the pipette away from the embryos.