

A single well insert holder capable of housing up to three well inserts (6- or 12-well inserts, Figure 1.) in a deep Petri dish is supplied in a pack. The Petri dish itself is not tissue culture treated. The whole product has been terminally sterilised by gamma irradiation and remains sterile until opened.

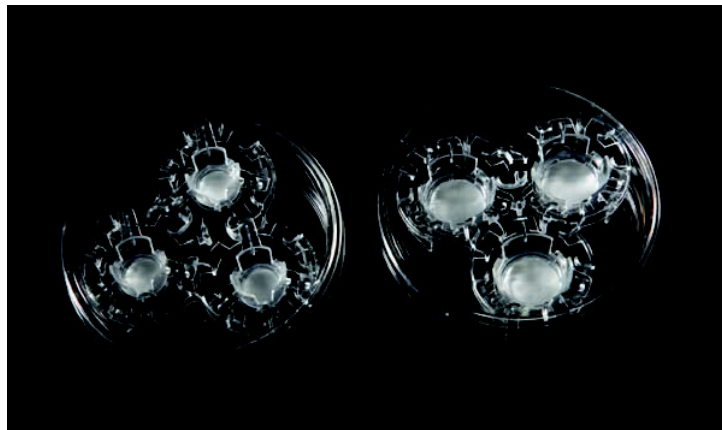


Figure 1. AMS.AVP005-34 (left) and AMS.AVP004-32 (right) in well insert holder system in deep Petri dishes.

Alvetex® well insert formats and their use in the well insert holder

The deep Petri dish enables users to grow their 3D cultures in larger volumes of media compared to an ordinary multiwell plate. Up to 95 ml of media can be used in the deep Petri dish and is therefore capable of sustaining long term 3D culture experiments (3-4 weeks) and reducing the frequency of medium exchanges. If required, a magnetic stirrer bar can be placed in the bottom of the dish to circulate media and facilitate exchange.

The well insert can be positioned at three different levels in the insert holder: high, medium and low (Figure 2).

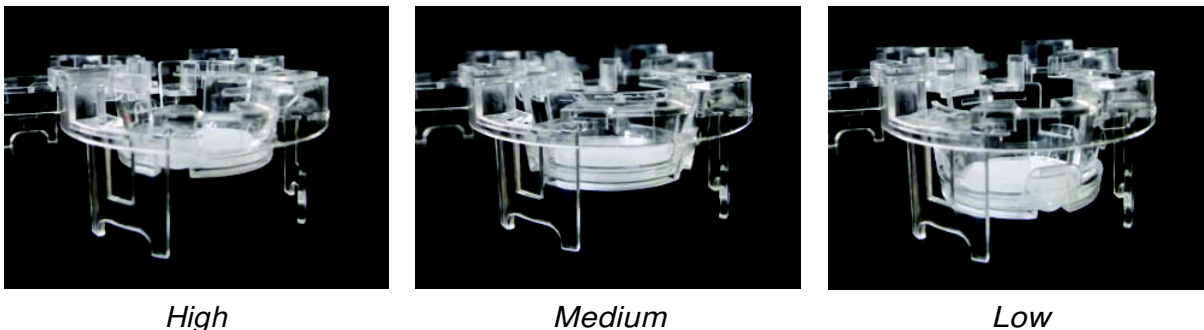


Figure 2. Well insert settings within the well insert holder (AMS.AVP015-2).

This feature allows cultures to be raised to the air liquid interface by moving the insert to a different level within the same holder.

Positioning the well inserts at different levels may be used to conserve expensive media or allow for increasing media volumes for demanding cell types over the course of a long term experiment.

Additionally, cultures can be fed from below the well insert only (i.), media from above and below separately (ii.) and media interconnected (iii.) through the windows at the side of the well inserts (Figure 3):

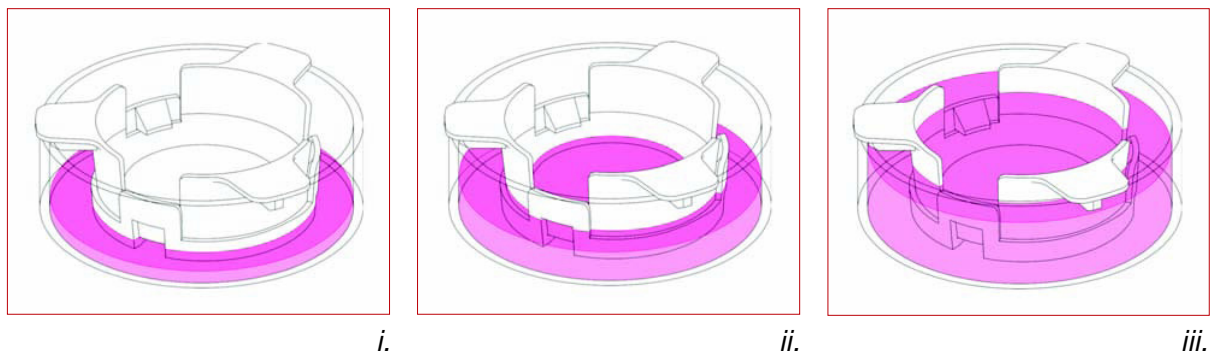


Figure 3. Media filling levels and well insert configurations.

Recommended volumes for AMS.AVP004-32 (6-well insert):

Well insert setting within holder	Feeding Volume		
	Below only (i.)	Above and below separately (ii.)	Above and below interconnected (iii.)
Low	20ml ± 1ml	40ml ± 3ml	70ml ± 5ml
Medium	34ml ± 2ml	50ml ± 3ml	80ml ± 3ml
High	48ml ± 2ml	70ml ± 5ml	92ml ± 3ml

Recommended volumes for AMS.AVP005-34 (12-well insert):

Well insert setting within holder	Feeding Volume		
	Below only (i.)	Above and below separately (ii.)	Above and below interconnected (iii.)
Low	20ml ± 1ml	40ml ± 3ml	72ml ± 5ml
Medium	34ml ± 2ml	52ml ± 3ml	82ml ± 3ml
High	48ml ± 2ml	70ml ± 5ml	92ml ± 3ml

The well insert holder system also allows for the 3D co-culture of more than one cell type by seeding different cells in one or two of the well inserts within the same Petri dish. 3D co-cultures can also be set up within the same well insert. Alternatively, a support cell line can be cultured at the base of the Petri dish in 2D and another in 3D in the well inserts.

As the Petri dishes are untreated, coat with poly-L-lysine, or similar, to facilitate cell attachment. Ensure that suitable media is chosen that will simultaneously support the growth of both cell types cultured. The well insert holder will fit into deep Petri dishes with approximate dimensions of ≥ 86 mm (internal diameter) x ≥ 25 mm (height).

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