

# alvetex® Product Formats

## Introduction:

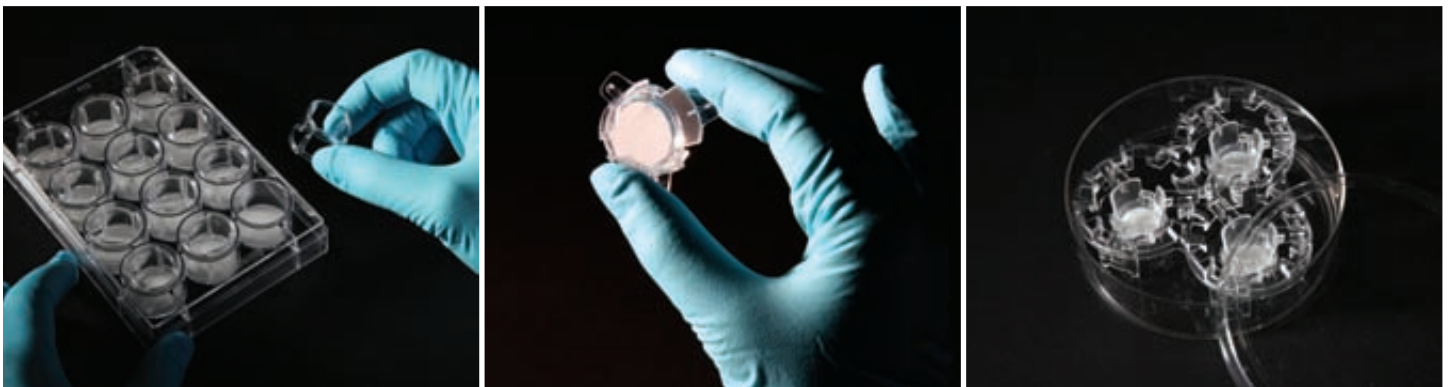
To address the needs of our customers, reinnervate has launched several new presentations of alvetex® providing the end user with a number of versatile options. These include multi-well plates, well inserts, and a large medium reservoir.

## Highlights:

- By choosing from a range of different formats, the user can now match the presentation of alvetex® to the requirements of the experiment
- These formats have been designed to enable flexibility, to optimise 3D cell growth using alvetex® technology

## Key Benefits:

- Match the format of alvetex® to optimise the growth of specific cell types
- Control the degree of penetration required within the 3D structure of alvetex®
- Select the appropriate format to the duration of the assay and enable long term 3D cell culture

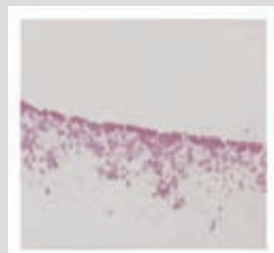
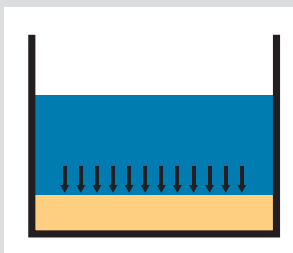


## Multi-well plate format:

alvetex® is available in a 12-well plate format. Each disc of alvetex® is held in place by a plastic clip which can easily be removed if necessary.

### Key benefits:

- Ideal for 3D culture in the top half of alvetex®
- Multi-well plate format is good for short term cultures
- Cells are fed from the top of the alvetex® scaffold only
- Useful for when restricted cell penetration is required (e.g. transfection)
- An option for use with expensive cells, reducing cell numbers

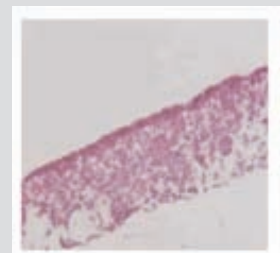
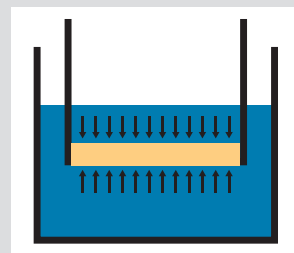


## Well insert format:

alvetex® is available in 6 and 12 well insert formats. The 12-well insert has extended wings that can snap back, enabling it to fit into both 6 and 12 well plates.

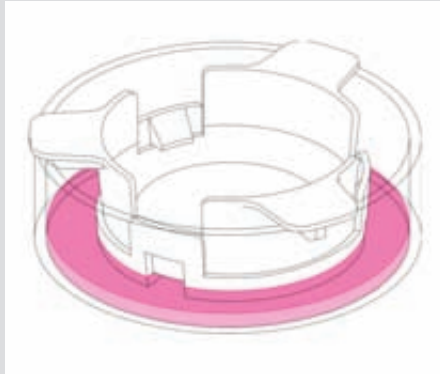
### Key benefits:

- Enables cells to be fed from above and below simultaneously
- Ideal for longer term 3D culture
- Supplied individually blister packed and compatible with standard plates
- Readily transfer 3D cultures to a fresh plate
- Enables co-culture studies (2D and 3D; or 3D and 3D)

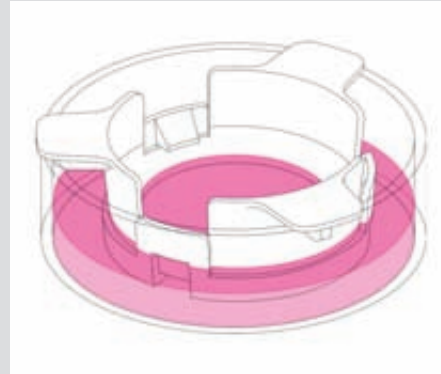


## Versatile design for greater flexibility:

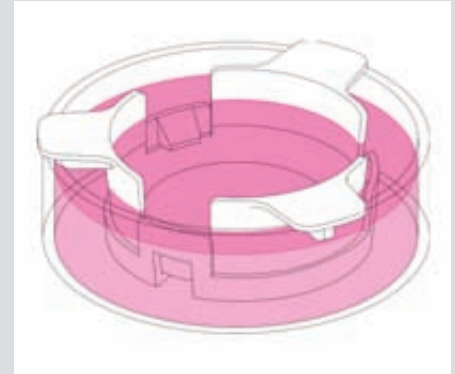
Our well inserts are designed to enhance user flexibility. They are compatible with multi-well plates and fit into our insert holder within a Petri dish. Users can select various levels of culture medium for alternative applications.



*Media from below only:* application 3D cell growth at air-liquid interface



*Media from above and below:* application 3D cell growth with different media either side



*Media all round:* application to optimise 3D cell growth, enabling mixing of media compartments

## Maintaining long term 3D cultures:

In 3D cell culture there are many more cells per unit volume of medium which may require users to refresh their media more frequently, depending on the demands of the cells being cultured.

We have designed a novel well insert holder to fit inside a deep Petri dish. By combining alvetex® well inserts with the holder in the Petri dish, cells can be cultured in 3D for longer term assays reducing the requirement for frequent media changes.

The holder can accommodate up to three 6 and/or 12 well inserts at any one time. In addition, the user can control the height of the insert within the Petri dish. Your 3D culture can be positioned at three different levels depending on the goals of your particular assay.

### Key benefits:

- Convenient – reduces frequency of media changing
- Highly versatile and maximises user applications
- Ideal for long term 3D culture experiments of up to several weeks
- Petri dish facilitates use of magnetic stirrer to increase media circulation
- Alternative insert heights give users better control over medium volumes
- Raise 3D cultures up to the air liquid interface (e.g. skin application)
- If required, up to 80ml of medium can be used to support a single 3D culture



## Ordering Information

Product Name	Code	Description
alvetex® 12 well plate	AVP002	1 x alvetex® 12 well plate
alvetex® 6 well inserts	AVP004-3	3 x individually sealed 6 well inserts
alvetex® 12 well inserts	AVP005-3	3 x individually sealed 12 well inserts
alvetex® well insert holder	AVP015	1 x well insert holder in a deep petri-dish with lid and petri-dish