

**APRICELL**

BIOTECHNOLOGY



# 3-in-1 Plate

---

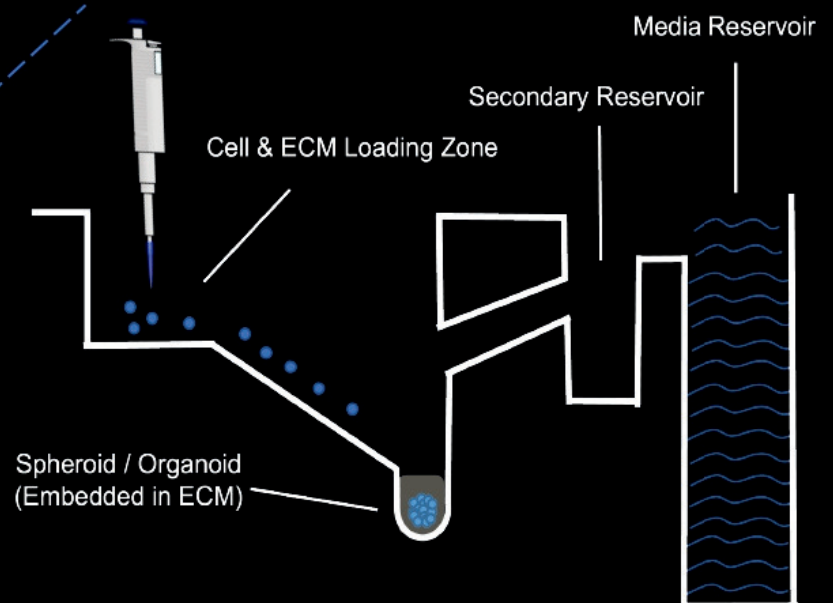
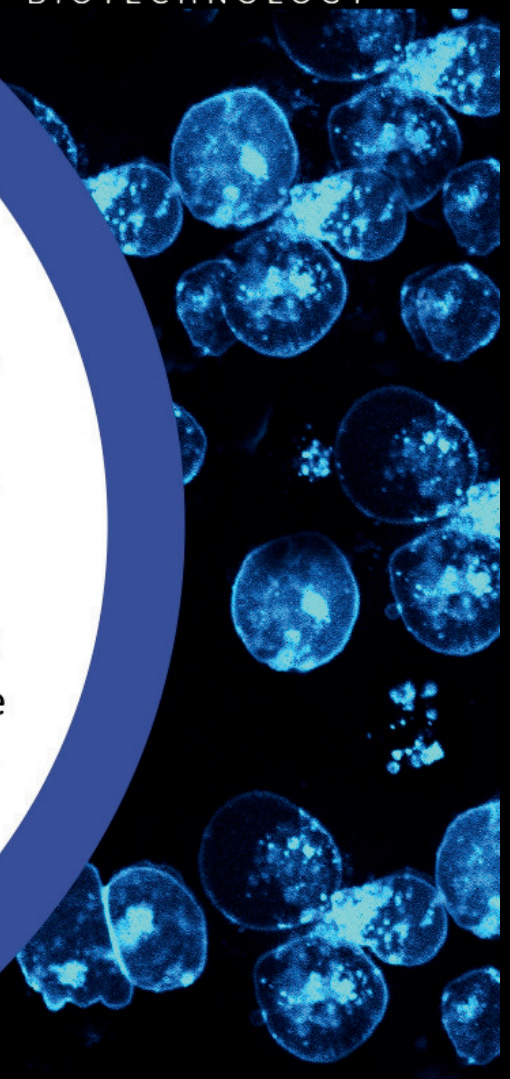
Spheroid Formation + Microenvironment + Drug Testing

Distributed by

**cliniSciences**

# 3-in-1 Plate

The 3-in-1 Plate is a hydrogel insert that fits within each well of a six-well plate. The insert combines spheroid/organoid formation, extracellular matrix (ECM) integration and drug testing all in one easy to use platform. The 3-in-1 Plate is ideal for researchers looking to embed spheroids in an ECM or conduct drug screening on complex models. The insert is also perfectly suited to a variety of assays and standard laboratory imaging equipment.



Distributed by

**cliniSciences**

# All-in-One Platform

Culture spheroids, embed in an extracellular matrix, test drugs and conduct downstream analysis. All without ever having to transfer the models from one plate to another.

## No Risk of Losing Spheroids

The 3-in-1 Plate enables disturbance free solution exchanges, eliminating the possibility of aspirating spheroids when replacing media.

## In Situ IHC Analysis

Spheroids can be treated and sliced directly within the microwells of the 3-in-1 Plate, preserving the delicate morphology of your models.

## No Crosstalk

Each microwell contains only one spheroid, eliminating the possibility of inter-model crosstalk.

## Effortless Imaging

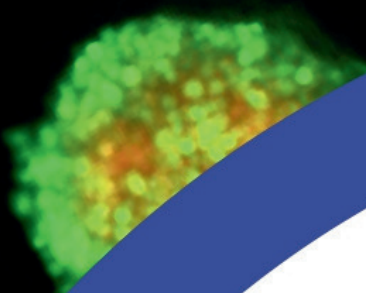
The design and material of the 3-in-1 Plate means you can stain and image spheroids in situ.

## Uniform Models

The geometry of our microwells results in highly uniform spheroids and perfect data consistency.

## Reduced Cell Requirements

Less cells are required to form organoids in the 3-in-1 Plate, eliminating the need for passaging.



# Applications

## Co-Culture

The 3-in-1 Plate allows users to easily create complex in vitro models by co-culturing spheroids with various components of the stroma and immune system.

## Invasion

Study tumor invasion in 3D with the 3-in-1 Plate. After culturing, spheroids can easily be embedded in an ECM without having to remove them from the insert.

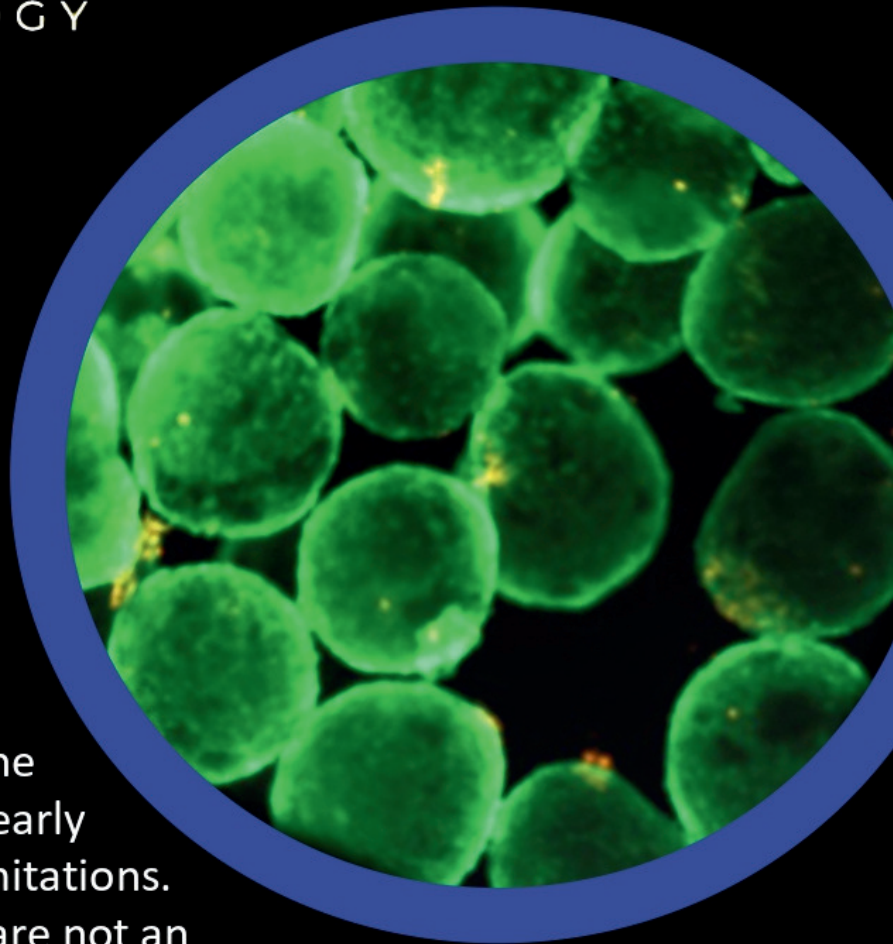
## Drug Screening

The 3-in-1 Plate is perfectly suited for drug screening on complex, ECM integrated models. Each quadrant of the insert can be used to test a different drug.

## Assays + Imaging

Spheroids in the 3-in-1 Plate are amenable to a wide range of assays and compatible with all standard laboratory imaging equipment.

## Why 3D?



2D cell cultures have been the industry standard since the early 1900s, despite significant limitations. Simply put, 2D cell cultures are not an accurate representation of in vivo tissue because cells do not exist in 2D planes within the human body.

In the last decade 3D cell culture has become an increasingly popular research tool used for modelling cellular systems. When grown in 3D, cells are no longer restricted to growing within a monolayer, and can begin to adhere to each other and the extracellular matrix, mimicking the native microenvironment from which the cells originated. The gene expression profiles of tumor cells from 3D cultures more accurately reflect clinical expression profiles than those observed in 2D cultures. There is also increased cell-cell and cell-matrix communication, proliferation differences, increased survival rates and relevant pH, nutrient and oxygen gradients.

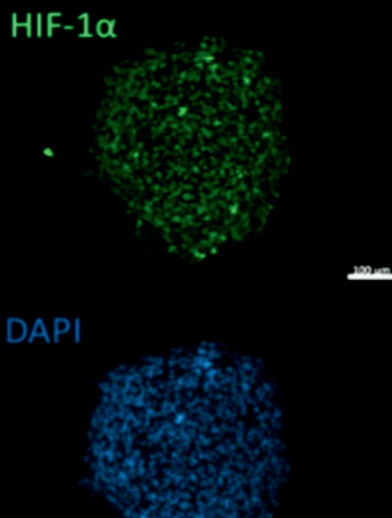
## The 3-in-1 Plate is Compatible With Various Assays and Readouts

### IHC and H&E Analysis

The 3-in-1 Plate allows spheroids to be treated for IHC and H&E directly in the platform without having to remove them. The platform can then be embedded in paraffin and sliced, without the need for further manipulation.

### In-Situ Immunofluorescence Imaging

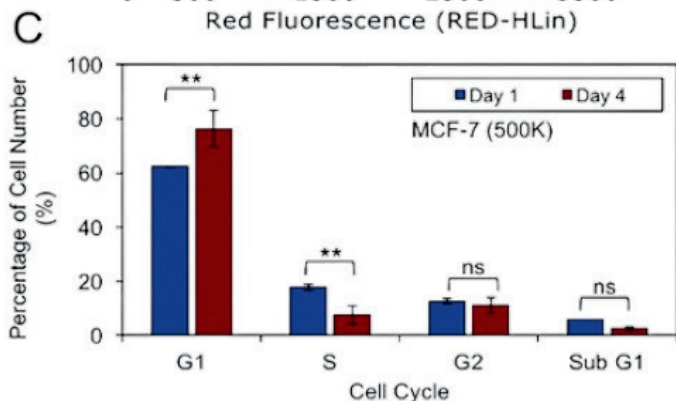
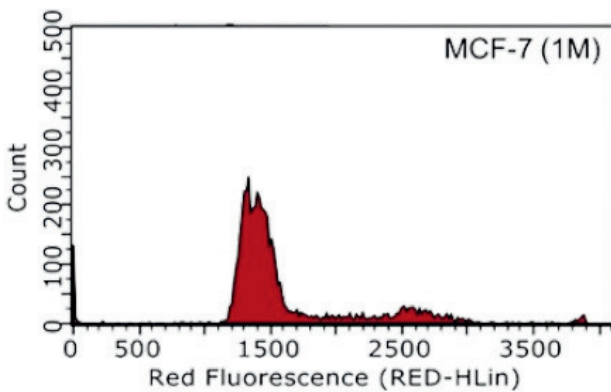
The 3-in-1 Plate is a hydrogel-based transparent insert compatible with in-situ immunostaining and fluorescence microscopy.



**The 3-in-1 Plate is Compatible With  
Different Assays and Readouts**

**Flow Cytometry &  
Cell Cycle Analysis**

Spheroids in the 3-in-1 insert can be easily dissociated on plate for any downstream cytometry analysis.



**OMIC's Analysis**

Spheroids in the 3-in-1 Plate can be easily lysed and used for various OMIC's analysis.

# Study Design

## Material Types

**Cell Lines**

**Stem Cells**

**Patient-Derived Xenograft  
Material**

**Core Needle Biopsy Samples**

**Biopsy Surgical Resections**

Distributed by

**cliniSciences**

# **APRICELL**

BIOTECHNOLOGY

## About Us

**Apricell Biotechnology is a company spun out of the University of Victoria dedicated to reducing the attrition rate of new drugs in clinical trials. In collaboration with the University, Apricell is developing novel 3D culture technologies that open opportunities for researchers all the way from basic research and drug testing to advanced patient management.**

Distributed by

**cliniSciences**

# clinisciencences

## Austria

Company: CliniSciences GmbH  
Address: Sternwartestrasse 76, A-1180  
Wien - Austria  
Telephone: +43 720 115 580  
Fax: +43 720 115 577  
Email: [oesterreich@clinisciencences.com](mailto:oesterreich@clinisciencences.com)  
Web: <https://www.clinisciencences.com>



## Belgium

Company: CliniSciences S.R.L  
Address: Avenue Stalingrad 52, 1000  
Brussels - Belgium  
Telephone: +32 2 31 50 800  
Fax: +32 2 31 50 801  
Email: [belgium@clinisciencences.com](mailto:belgium@clinisciencences.com)  
Web: <https://www.clinisciencences.com>



## Denmark

Company: CliniSciences ApS  
Address: Oesterbrogade 226, st. 1,  
Copenhagen, 2100 - Denmark  
Telephone: +45 89 888 349  
Fax: +45 89 884 064  
Email: [denmark@clinisciencences.com](mailto:denmark@clinisciencences.com)  
Web: <https://www.clinisciencences.com>



## Finland

Company: CliniSciences ApS  
Address: Oesterbrogade 226, st. 1,  
Copenhagen, 2100 - Denmark  
Telephone: +45 89 888 349  
Fax: +45 89 884 064  
Email: [suomi@clinisciencences.com](mailto:suomi@clinisciencences.com)  
Web: <https://www.clinisciencences.com>



## France

Company: CliniSciences S.A.S  
Address: 74 Rue des Suisses, 92000  
Nanterre- France  
Telephone: +33 9 77 40 09 09  
Fax: +33 9 77 40 10 11  
Email: [info@clinisciencences.com](mailto:info@clinisciencences.com)  
Web: <https://www.clinisciencences.com>



## Germany

Company: Biotrend Chemikalien GmbH  
Address: Wilhelm-Mausser-Str. 41-43,  
50827 Köln - Germany  
Telephone: +49 221 9498 320  
Fax: +49 221 9498 325  
Email: [info@biotrend.com](mailto:info@biotrend.com)  
Web: <https://www.biotrend.com>



## Iceland

Company: CliniSciences ApS  
Address: Oesterbrogade 226, st. 1,  
Copenhagen, 2100 - Denmark  
Telephone: +45 89 888 349  
Fax: +45 89 884 064  
Email: [island@clinisciencences.com](mailto:island@clinisciencences.com)  
Web: <https://www.clinisciencences.com>



## Ireland

Company: CliniSciences Limited  
Address: Ground Floor, 71 lower Baggot street  
Dublin D02 P593 - Ireland  
Telephone: +353 1 6971 146  
Fax: +353 1 6971 147  
Email: [ireland@clinisciencences.com](mailto:ireland@clinisciencences.com)  
Web: <https://www.clinisciencences.com>



## Italy

Company: CliniSciences S.r.l  
Address: Via Maremmana inferiore 378  
Roma 00012 Guidonia Montecelio - Italy  
Telephone: +39 06 94 80 56 71  
Fax: +39 06 94 80 00 21  
Email: [italia@clinisciencences.com](mailto:italia@clinisciencences.com)  
Web: <https://www.clinisciencences.com>



## Netherlands

Company: CliniSciences B.V.  
Address: Kraaijenhoffstraat 137A,  
1018RG Amsterdam, - Netherlands  
Telephone: +31 85 2082 351  
Fax: +31 85 2082 353  
Email: [nederland@clinisciencences.com](mailto:nederland@clinisciencences.com)  
Web: <https://www.clinisciencences.com>



## Norway

Company: CliniSciences AS  
Address: c/o MerVerdi Munkerudtunet 10  
1164 Oslo - Norway  
Telephone: +47 21 988 882  
Email: [norge@clinisciencences.com](mailto:norge@clinisciencences.com)  
Web: <https://www.clinisciencences.com>



## Poland

Company: CliniSciences sp.Z.o.o.  
Address: ul. Rotmistrza Witolda Pileckiego 67  
lok. 200 - 02-781 Warszawa -Poland  
Telephone: +48 22 307 0535  
Fax: +48 22 307 0532  
Email: [polska@clinisciencences.com](mailto:polska@clinisciencences.com)  
Web: <https://www.clinisciencences.com>



## Portugal

Company: Quimigen Unipessoal LDA  
Address: Rua Almada Negreiros, Lote 5, Loja 14,  
2615-275 Alverca Do Ribatejo - Portugal  
Telephone: +351 30 8808 050  
Fax: +351 30 8808 052  
Email: [info@quimigen.com](mailto:info@quimigen.com)  
Web: <https://www.quimigen.pt>



## Spain

Company: CliniSciences Lab Solutions  
Address: C/ Hermanos del Moral 13  
(Bajo E), 28019, Madrid - Spain  
Telephone: +34 916 750 700  
Fax: +34 91 269 40 74  
Email: [espana@clinisciencences.com](mailto:espana@clinisciencences.com)  
Web: <https://www.clinisciencences.com>



## Sweden

Company: CliniSciences ApS  
Address: Oesterbrogade 226, st. 1,  
Copenhagen, 2100 - Denmark  
Telephone: +45 89 888 349  
Fax: +45 89 884 064  
Email: [sverige@clinisciencences.com](mailto:sverige@clinisciencences.com)  
Web: <https://www.clinisciencences.com>



## Switzerland

Company: CliniSciences AG  
Address: Fracht Ost Flughafen Kloten  
CH-8058 Zürich - Switzerland  
Telephone: +41 (044) 805 76 81  
Fax: +41 (044) 805 76 75  
Email: [switzerland@clinisciencences.com](mailto:switzerland@clinisciencences.com)  
Web: <https://www.clinisciencences.com>



## UK

Company: CliniSciences Limited  
Address: 11 Progress Business center, Whittle  
Parkway, SL1 6DQ Slough- United Kingdom  
Telephone: +44 (0)1753 866 511  
or +44 (0) 330 684 0982  
Fax: +44 (0)1753 208 899  
Email: [uk@clinisciencences.com](mailto:uk@clinisciencences.com)  
Web: <https://www.clinisciencences.com>



## USA

Company: CliniSciences LLC  
Address: c/o Carr Riggs Ingram,  
500 Grand Boulevard, Suite 210 Miramar  
Beach, FL 32550- USA  
Telephone: +1 850 650 7790  
Fax: +1 850 650 4383  
Email: [usa@clinisciencences.com](mailto:usa@clinisciencences.com)  
Web: <https://www.clinisciencences.com>

