

We provide fully synthetic peptide hydrogel scaffolds that mimic the stiffness and charge of the cell micro-environment of any tissue type.

PeptiGel® Organoid Starter Kit

A Fully Defined Kit Designed for Spheroid and Organoid Cultures

The Extracellular Matrix (ECM) contains a variety of different proteins to support the function of:

- Cell adhesion
- Cell-to-cell communication
- Cellular differentiation

The most abundant proteins present in the ECM are **collagen**, **laminin**, and **fibronectin**.

The Kit

To allow you to find the most suitable ECM composition to support your organoid growth, we have designed a **PeptiGel® Organoid Starter Kit**. The kit includes three PeptiGels® functionalised with different variations of cell recognition sequences that are present in the native ECM, allowing you to explore the influence of them individually on your cells to help better understand their importance.

- PeptiGel® Alpha 4-**RGD**
(Fibronectin)
- PeptiGel® Alpha 4-**RGD+IKVAV**
(Fibronectin & Laminin)
- PeptiGel® Alpha 4-**RGD+GFOGER**
(Fibronectin & Collagen)

Alpha 4 is the PeptiGel® of choice for this kit since it has become our gold-standard gel in supporting successful organoid growth, due its specifically designed **stiffness** and **charge**.

Core Benefits

- **Ready to use**
Supplied as ready-made hydrogels
- **Animal free**
100% ethical synthetic materials
- **Convenient**
Simply seed your cells at room temperature and get results
- **Consistent**
Reproducible to get the same results every time
- **Chemically defined**
No batch to batch variation
- **Biocompatible**
Opens up their potential for clinically translatable research



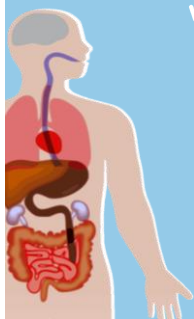


This kit provides the opportunity to explore **PeptiGel® Alpha 4** in a range of functionalities to find the most suitable environment for your organoid growth.

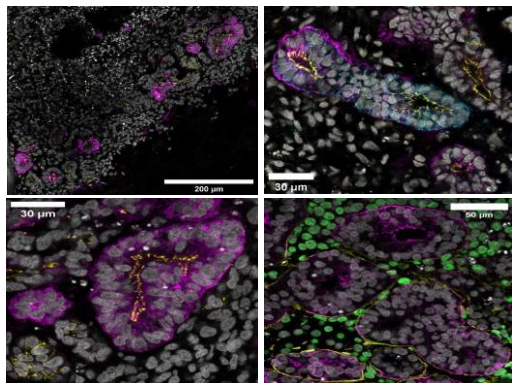
PeptiGel® Organoid Kit

PeptiGel®	G'/kPa	Volume	
Alpha 4-RGD (Fibronectin)	1	2mL	5mL
Alpha 4-RGD+IKVAV (Fibronectin & Laminin)	1	2mL	5mL
Alpha 4-RGD+GFOGER (Fibronectin & Collagen)	1	2mL	5mL

Successful Organoid Applications with PeptiGel® to Date



- Breast
- Liver
- Kidney
- Colorectal



Featured in the Following Publications:

- Advanced Functional Materials
- Journal of Tissue Engineering
- Material Letters
- Acta Biomaterialia

To order your PeptiGel® Organoid Starter Kit and to find out how we can support your research, get in touch at www.manchesterbiogel.com or via info@manchesterbiogel.com



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