PA2P   PeptiGel® Alpha 2 PLUS

Description

PeptiGel® Alpha 2 PLUS is a ready-to-use fully synthetic positively charged peptide hydrogel functionalized with fibronectin (RGD) and collagen (GFOGER) motifs, mimicking the extracellular matrix more closely and encouraging better cellular adhesion. PeptiGel® Alpha 2 PLUS is suitable for the culture of neuronal cells and other related cell types, whilst exhibiting enhanced optical clarity making it suitable for several imaging applications.

PeptiGel® Alpha 2 PLUS is a stiffer hydrogel when compared to Alpha 4 but has consistent mechanical stiffness (G') and pore size, resulting in excellent reproducible results. PeptiGel® Alpha 2 PLUS can be used for both in-vitro and in-vivo applications with physiologically and clinically relevant results.

Specifications

Charge	Positive (+1)
Mechanical Properties (kPa)	6.0 – 8.0
GFOGER from Collagen	Yes
RGD from Fibronectin	Yes

Stability and Storage

Stability and Storage	At least 6 months shelf life when stored at 4°C as supplied

General Guidance for Handling and Use of PeptiGels®

- **Pipetting:** It is recommended to use a positive displacement pipette (e.g. Gilson piston pipette) to facilitate accurate PeptiGel® handling and for mixing PeptiGel® for 3D cell culture.

- **Air bubbles:** Prior to starting work with PeptiGel®, any visible air bubbles can be removed by one or more rounds of centrifugation (1,600 x *g* for 1 minute at room temperature). When mixing PeptiGel® for 3D cell culture, the formation of air bubbles should be minimised. This can be achieved by making sure cells are released slowly into the hydrogel whilst gradually bringing the pipette upwards, in a stirring motion. In addition, make sure the pipette tip never leaves the hydrogel while mixing.

- **Diluting:** PeptiGels® can be diluted with HPLC water to help you achieve your desired mechanical strength/s. PeptiGels® are also supplied with a range of mechanical strengths.

Resources and Protocols

For additional resources and specific protocols, click here or scan the QR code.