

# PeptiGel<sup>®</sup> Protocol:

## How to Dilute PeptiGels<sup>®</sup>

### Before you begin, please note:

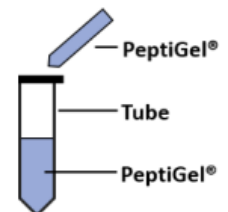
This protocol describes how to dilute the PeptiGels<sup>®</sup> Alpha 1<sup>™</sup>, Alpha 2<sup>™</sup>, and Alpha 4<sup>™</sup>.

It's recommended to use a positive displacement pipette (such as the Gilson piston pipette) to allow easy pipetting as these are viscous hydrogels. Use of an air displacement pipette could lead to the introduction of bubbles to your PeptiGel<sup>®</sup>.

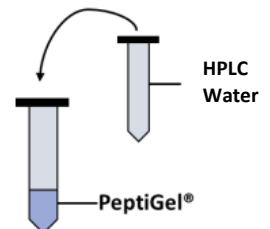
**Do not** dilute PeptiGel<sup>®</sup> using cell culture medium or solvents containing ionic solutes as these will cause gelation of the PeptiGel<sup>®</sup>.

1. Remove PeptiGel<sup>®</sup> from the fridge and pre-warm to room temperature. If bubbles are present in the PeptiGel<sup>®</sup>, centrifuge the vial containing PeptiGel<sup>®</sup> at 1,600 x g for 1 minute, repeat if required.
2. Using a positive displacement pipette, transfer the required volume of PeptiGel<sup>®</sup> into a 15 mL Falcon tube. Scale up or down according to culture and dilution requirements. As a guide, see the table below:

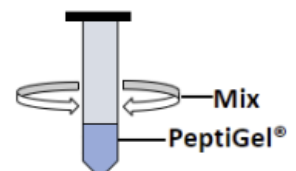
Dilution (% PeptiGel <sup>®</sup> )	Volume of PeptiGel <sup>®</sup>	Volume of HPLC-grade water
0%	1 mL	0 mL
50%	0.5 mL	0.5 mL
75%	0.75 mL	0.25 mL



3. Add the required volume of HPLC-grade water into the Falcon tube containing PeptiGel<sup>®</sup>. For specific dilutions, see the table above.



4. Vortex for 3 minutes to ensure homogenous mixture then centrifuge the diluted PeptiGel<sup>®</sup> at 1,600 x g for 1 minute to remove air bubbles. Repeat this step until a homogenous mixture is achieved.



5. Continue according to your experimental requirements or store your diluted PeptiGels® at 4°C until required.

**Note:** PeptiGels have a 6-month shelf life once the vial is opened in a sterile environment.

For further support, please contact our technical support team at [tech@cellgs.com](mailto:tech@cellgs.com).



General [info@cellgs.com](mailto:info@cellgs.com)  
Technical Enquiries [tech@cellgs.com](mailto:tech@cellgs.com)  
Orders [order@cellgs.com](mailto:order@cellgs.com)

[www.cellgs.com](http://www.cellgs.com)

**EUROPE**  
**Cell Guidance Systems Ltd**  
Maia Building  
Babraham Bioscience Campus  
Cambridge  
CB22 3AT  
United Kingdom  
T +44 (0) 1223 967316  
F +44 (0) 1223 750186

**USA**  
**Cell Guidance Systems LLC**  
Helix Center  
1100 Corporate Square Drive  
St. Louis  
MO 63132  
USA  
T 760 450 4304  
F 314 485 5424