

QGel™ Protocol

Peptide incorporation: how to incorporate covalently a peptide of your choice in QGel™ MT 3D Matrix

ABOUT THIS PROTOCOL

This is an explanation on how to incorporate covalently specific peptide in QGel™ MT 3D Matrix (ref. 1004). Note that the final concentration of the peptide needs to be optimized depending on its influence on the cells.

PRODUCT SUPPORT

Brochure, FAQ and videos on: www.qgelbio.com/support

Suggested chemicals/solutions/kits:

- Solution of the peptide* to be incorporated (thawed and then kept on ice)

Brief procedure description:

- 1.a Resuspend QGel™ MT 3D Matrix powder (ref. 1004) by addition of 375 µL of the QGel™ buffer A.
- 1.b Vortex about 10 seconds
- 2.a Add 25 µL of peptide* solution (attention: final peptide concentration max. 70 µM**) and vortex quickly for homogenization.
- 2.b Add 100 µL of the cell suspension and vortex quickly for homogenization.
3. The solution is ready and gel discs can be casted as usual.

Important notes:

* *Design of the peptide:*

Please contact QGel™ for important information about the design of the peptide domain required for matrix incorporation.

** *Peptide concentration:*

Peptide concentrations < 70µM result in hydrogel matrices with similar mechanical properties as the blank ref. 1004, or ref. 1001 and 1007. Higher peptide concentrations will decrease the mechanical properties of the gels; and gel formation is impaired or does not occur if the peptide concentration is > 450-500µM.

