

VitroGel® High Concentration

Building blocks for endless creativities and maximum flexibility

Thomas
Scientific

TheWell
BIOSCIENCE

VitroGel® High Concentration hydrogels are our xeno-free, tunable hydrogels for researchers wanting full control to manipulate the biophysical and biological properties of cell culture environment. The tunability of the hydrogel gives the ability to create an optimized environment for cell growth. The solution transforms into a hydrogel matrix by simply mixing with the cell culture medium. No cross-linking agent is required. Cells cultured in this system can be easily harvested. The hydrogel is also injectable for *in vivo* studies. From 2D coating, 3D culture to animal injection, VitroGel makes it possible to bridge the *in vitro* and *in vivo* studies with the same platform system.

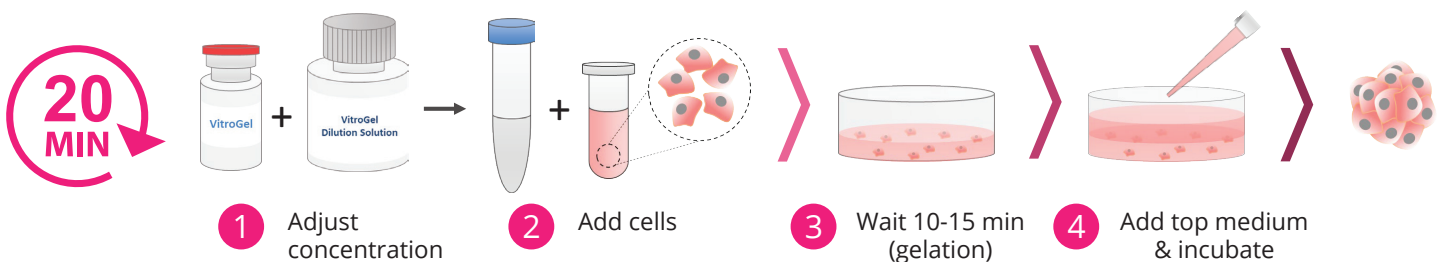


- ▶ Choose hydrogels with functional ligands such as RGD, collagen, laminin and MMP.
- ▶ "Mix & Match" Unique to the VitroGel system is the ability to customized multi-functional hydrogel by blending different types of VitroGel together.



3D cell culture process in 20 min

(includes a 10-15 min waiting time for hydrogel stabilization)



Tunable - hydrogel strength

Adjust the hydrogel strength from a wide range to create the optimal cell environment.



Easy cell harvesting - 20 min protocol

Use our enzyme-free cell recovery solution to harvest cells safely & fast while maintaining high cell viability.



Easy-to-use

No cross-linking agent required. Adjust hydrogel with Dilution Solution and mix with cells, add medium and incubate.



Mix & Match

Build and create a customized multi-functional hydrogel by blending different types of VitroGel together.



Xeno-free

100% animal origin-free hydrogel system.



Transparent

Excellent for imaging systems for cell observation.



Work at room temperature

Get rid of your ice bucket! The hydrogel system is room temperature stable with a neutral pH.



Injectable

After soft gel formation, the hydrogel is injectable for cell therapy and drug delivery applications.



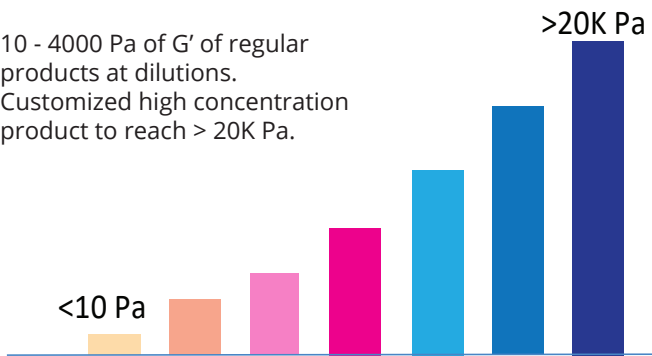
3D Cell Culture Your Way

The VitroGel system can be “mixed and matched” with each other. Scientists can tailor create their 3D culture micro-environment by blending different VitroGel system for different applications. Create a customized multi-functional hydrogel by blending different ratios from VitroGel® RGD, VitroGel® IKVAV, VitroGel® YISGR, VitroGel® MMP or VitroGel® COL.

Tunable hydrogel strength

Simply diluting the hydrogel controls the strength.

10 - 4000 Pa of G' of regular products at dilutions. Customized high concentration product to reach > 20K Pa.



Compare to other 3D methods

	VitroGel	Basement Membrane Matrix	Polymer Matrix	Hanging Drop Plate
Easy-to-use	●		●	●
Mimic natural ECM	●	●		
Xeno-free	●		●	●
Room temperature stable	●		●	●
Neutral pH	●		N/A	N/A
Easy Cell harvesting	●		●	●
Transparent	●	●	●	●
Multi-functional ligands	●	●		
Wide range hydrogel strength	●			
Injectable	●	●		
Automation friendly	●		●	●

Thomas No.	Mfr. No.	Product	Size
CHM11N966	TWG001	VitroGel® 3D High Concentration	3 mL
CHM11N968	TWG003	VitroGel® RGD High Concentration	3 mL
CHM11N970	TWG007	VitroGel® IKVAV High Concentration	3 mL
CHM11N972	TWG008	VitroGel® YISGR High Concentration	3 mL
CHM11N974	TWG009	VitroGel® COL High Concentration	3 mL
CHM11N976	TWG010	VitroGel® MMP High Concentration	3 mL
-	MS03-100	VitroGel® Cell Recovery Solution	100 mL



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