

For Research Use Only 20250516

Porous Gelatin Methacryloyl

Porous GelMA

Product component

ltem	Character	Package Size	Notes			
Porous GelMA hydrogel	White spongy	0.6g/bottle x2	Keep in dark			

This instruction applies to EFL-GM-PR-001/002

Storage

Dry kit: -20 °C, 18 months; 4 °C, 3 months. (Due to its special properties, storage at -20 °C is recommended). Sterile solution: 4 °C (in dark),7 days; -20 °C (in dark),6 months. Please note that repeated freezing and thawing of the solution will affect the performance of the product, so it is best to prepare it when using it.

Period of validity

The date of manufacture is shown in the package.

Required materials

- EFL-GM-PR series porous GelMA hydrogel products^{EFL}
- EFL-LS-1601 series 405nm curing light source equipment^{FL}
- ➢ PBS (1X)
- Constant temperature magnetic stirring water baths
- ➢ 0.22µm Sterile needle filters
- > 10-50mL Sterile centrifuge tubes
- 10mL Syringes
- 1-5mL Pipettes & tips





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Operation steps (3D cell culture)

Steps	Title	Materials	Processes		
1	Prepare solution	 > EFL-GM-PR series porous GelMA hydrogel products > PBS (1X) > Pipette guns > constant temperature magnetic stirring water baths 	 Add appropriate amount of PBS to the porous GeIMA bottle; Recommended concentration for porous GeIMA is 6-8% (w/v). (bottle contains magnetic rotor and 0.6g porous GeIMA product). Preparation of porous GeIMA hydrogel precursor solution by magnetic stirring at 37°C in a water bath keeping in the dark for 1h (important step). 		
2	Sterilise solution	 0.22µm Sterile needle filters Constant temperature water baths Sterile centrifuge tubes 	 Sterilise the above solution immediately with a sterile 0.22µm needle filter (to prevent gelation when the temperature drops) and store at 37°C in the dark. Note: If it is not possible to use it all at once, store in the refrigerator for a short period of time (< 7 days). Before the next use, redissolve at 37°C and vortex for 20-30 seconds to homogenise the material. 		
3	Mix cells		 Collect cells. Resuspend cells in the sterile precursor solution (multiple blowing or shaking). 		

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			1)	96-well	plate: 50-)0-300µL/	·	ell plate; ell, 48-well well plate:		
4	Cure GeIMA			Let stand at room temperature for 2 min.Irradiation with EFL-LS-1601 series405nm light source to cure hydrogels,Irradiation times are shown in the tablebelow:Models6%7%8%001					
5	Wash samples	 Pipettes & tips 	1)	00116~18s13~16s8~10sAdd medium and incubate at 37°C for 5minutes.Remove the medium.					
6	Culture cells		1)						

Operation steps (2D cell culture)

The main steps of 2D cell culture are the same as those of 3D culture, except that step 3 mixing cells. After washing the sample in step 5, seed cells on the surface.



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