

Materials List for:

Dissection of Organizer and Animal Pole Explants from *Xenopus laevis* Embryos and Assembly of a Cell Adhesion Assay

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Materials

Name	Type	Company	Catalog Number	Comments
1x MBS-H	Buffer			Modified Barth's medium: 1L recipe: 5.14g NaCl, 75mg KCl, 0.2g NaHCO ₃ , free-acid. Adjust the pH to 7.4 with NaOH. Autoclave.
CMF-MBS	Buffer			This is Ca ²⁺ /Mg ²⁺ -free version of MBS-H. 500ml recipe: 2.57g NaCl, 37.5mg KCl, free-acid. Adjust the pH to 7.4 with NaOH. Autoclave.
1% agarose/1x Barth's plates				as many as the number of samples
1% agarose/CMF-MBS plates				as many as the number of samples
E-Cadherin/Fc chimera	Reagent	Sigma-Aldrich	E-2278	Dissolve 0.1mg of solid E-cadherin in 100ul of 1x MBS-H containing 40% glycerol to make 100x master stock (1.0mg/ml). Store it in -20C. Make 1/100 dilution with 1x MBS-H to make 10ug/ml working solution just before you use. You need 200ul per samples of this working solution.
Fibronectin, 0.1% solution	Reagent	Sigma-Aldrich	F-1141	This pre-made solution can be used as 50x stock. Make 1/50 dilution with 1x MBS-H make 20ug/ml working solution just before you use. You need 200ul per samples of this working solution. I do NOT recommend using solid Fibronectin, because it is difficult to dissolve at 0.1% concentration to make the stock solution. Although it is more expensive, this pre-made 0.1% solution is better to obtain consistent results.
4% BSA /MBS-H	Buffer			BSA: molecular biology grade fraction V
Sigmacoted yellow tips	Tool			
No.1 cover slips				40x24mm or 60x24mm

Press-to-seal silicon insulator	Tool	Glance Bio-Labs	JTR20-2.5	2.5mm depth x 20mm diameter
NUNC Lab-Tek Chambered Coverglass	Tool	Fisher Scientific	12-565-471	2wells/slides
Grid slide glass	Tool			or Finder graticule for cell counting