

# Production of Cardiac Extracellular Matrix from Adult Human Fibroblasts for Culture Dish Coating

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jove.com/video/66160

## Materials

Name	Company	Catalog Number	Comments
1 L laboratory bottle	VWR	215-1595	Clean and autoclave before use
10 mL serological pipet	Falcon	357551	Sterile, polystyrene
100 mm glass plate	VWR	391-0578	Clean and autoclave before use
100 mm plates	Falcon	351029	Treated, sterile cell culture dish
15 mL sterile tubes	Falcon	352097	Centrifuge sterile tubes, polypropylene
22 mm x 22 mm cover glasses	VWR	631-1570	Autoclave before use
25 mL serological pipet	Falcon	357525	Sterile, polystyrene
250 mL laboratory bottle	VWR	215-1593	Clean and autoclave before use
35 mm plates	Falcon	353001	Treated, sterile cell culture dish
5 mL serological pipet	Falcon	357543	Sterile, polystyrene
50 mL sterile tubes	Falcon	352098	Centrifuge sterile tubes, polypropylene
500 mL laboratory bottle	VWR	215-1594	Clean and autoclave before use
60 mm plates	Falcon	353004	Treated, sterile cell culture dish
Ammonium hydroxide (NH <sub>4</sub> OH)	Sigma- Aldrich	338818	Liquid
Disposable scalpels	VWR	233-5526	Sterile and disposable
Dulbecco's Modified Eagle Medium (DMEM)	Sigma- Aldrich	D6429-500ml	Store at 2-8 °C; avoid exposure to light
Fetal Bovine Serum (FBS)	Sigma- Aldrich	F9665-500ml	Store at -20 °C. The serum should be aliquoted into smaller working volumes
Fine forceps	VWR	232-1317	Clean and autoclave before use
Gelatin from porcine skin	Sigma- Aldrich	G1890-100G	Commercial Powder
Hank's Balanced Salt Solution (HBSS)	Sigma- Aldrich	H1387-1L	Powder
Large surgical scissors	VWR	233-1211	Clean and autoclave before use
Microdissecting scissors	Sigma- Aldrich	S3146	Clean and autoclave before use

Penicillin and Streptomycin	Sigma- Aldrich	P4333-100ml	Store at -20°C. The solution should be aliquoted into smaller working volumes
Potassium Chloride	Sigma- Aldrich	P9333	Powder
Potassium Phosphate Monobasic	Sigma- Aldrich	P5665	Powder
Sodium Chloride	Sigma- Aldrich	S7653	Powder
Sodium Phosphate Dibasic	Sigma- Aldrich	94046	Powder
Stericup Filters	Millipore	S2GPU05RE	Sterile and disposable 0.22 mm filter membranes
Triton X-100	Sigma- Aldrich	9002-93-1	Liquid
Trypsin-EDTA	Sigma- Aldrich	T4049-100ml	Store at -20 °C. It should be aliquoted into smaller working volumes