

Materials List for:

Increasing Durability of Dissociated Neural Cell Cultures Using Biologically Active Coralline Matrix

Orly Eva Weiss¹, Roni Mina Hendler¹, Danny Baranes¹

¹Department of Molecular Biology, Ariel University

Correspondence to: Danny Baranes at dannyb@ariel.ac.il

URL: <https://www.jove.com/video/60443>

DOI: [doi:10.3791/60443](https://doi.org/10.3791/60443)

Materials

Name	Company	Catalog Number	Comments
24-well plates	Greiner	#60-662160	
B-27	Gibco	#17504-044	
Bovine Serum Albumin (BSA)	Sigma	#A4503	
D – glucose	Sigma	#G8769	
Dulbecco's Minimal Essential Eagle (DMEM)	Sigma	#D5796	
Electrical sieve	Ari Levy	#3700	
Fetal Bovine Serun (FBS)	Biological Industries	#04-007-1A	
First Day Medium			85.1% Minimum Essential Eagle's medium (MEM), 11.5% heat-inactivated fetal bovine serum, 1.2% L-Glutamine and 2.2% D-Glucose.
Flasks	Greiner	#60-690160	25cm ² , Tissue culture treated
Fluoro-deoxy-uridine	Sigma	#F0503	
Glass Coverslips	Menzel-Glaser	#BNCB00120RA1	
H ₂ O ₂	Romical	#007130-72-19	Hazardous
Ham's F-12 Nutrient Mixture	Sigma	#N4888	
HANK'S solution	Sigma	#H6648	
Kynurenic acid	Sigma	#K3375	
L - glutamine	Sigma	#G7513	
Manual strainer (40µm)	VWR	#10199-654	
Minimun Essential Eagle (MEM)	Sigma	#M2279	
Mortar and pestle	De-Groot	4-P090	
NaClO (Sodium Hypochlorite)	Sigma	#425044	Hazardous
NaOH	Sigma	#S8045	Hazardous
Neuronal Growth Medium			45% MEM, 40% Dulbecco's modified eagle's medium (DMEM), 10% Nutrient mixture F-12 Ham, 0.25% (w/v) bovine serum albumin (BSA), 0.75% D-glucose, 0.25% L-Glutamine, 0.5% B-27 supplement, 0.1% kynurenic acid, 0.01% of 70 % uridine and 30% fluoro-deoxy-uridine.
Petri dish	Greiner	#60-628160, #60-627160	60mm, 35mm, respectively.
Poly D – Lysine	Sigma	#P7280	
Smart Dentin Grinder	KometaBio	#GR101	

Trypsin	Gibco	#15-090-046	
Uridine	Sigma	#U3750	