

Materials List for:

Production of Double-stranded DNA Ministrings

Shirley Wong¹, Peggy Lam¹, Nafiseh Nafissi¹, Steven Denniss², Roderick Slavcev¹

¹School of Pharmacy, University of Waterloo

²Sgd Health Innovation

Correspondence to: Roderick Slavcev at slavcev@uwaterloo.ca

URL: <https://www.jove.com/video/53177>

DOI: [doi:10.3791/53177](https://doi.org/10.3791/53177)

Materials

Name	Company	Catalog Number	Comments
<i>E. coli</i> W3NN	Mediphae		strain for ministring processing: Nafissi & Slavcev, 2012
pDMS.IRES.GFP	Mediphae		parent plasmid for ministring processing: also referred to as pDNA Ministring (pDMS)
BD Difco Dehydrated Culture Media: LB Broth, Miller (Luria-Bertani)	Fisher Scientific	244620	
Fisher BioReagents Terrific Broth	Fisher Scientific	BP2468500	
BD Bacto Dehydrated Agar	Fisher Scientific	214010	
Ampicilin	MP Biomedicals LCC	2190147	
Ultrapure Milipore Water	Fisher Scientific	Z00Q0V0US	Model: Mili-Q Advantage A10 Water Purification System
Surgical Gloves	VWR	(S) 82026-424, (M)82026-426, (L) 82026-428, (XL) 82026-430	
Fisherbrand Petri Dishes with Clear Lid Raised Ridge (100 x 15 mm)	Fisher Scientific	FB0875712	
30 ml KIMAX Test Tubes	VWR	89001-448	
Spectrophotometer Cuvette	Sarstedt	67.74	
Sterile 15 ml Falcon Tubes	BD Falcon	62406-200,	
Sterile 50 ml Centrifuge Tubes	FroggaBio	2930-S0	
Falcon Disposable Polystyrene Serological Pipets 10 ml	BD Falcon	13-675-20	
Falcon Disposable Polystyrene Serological Pipets 25 ml	BD Falcon	13-668-2	
Micropipettor (100-1,000 µl)	FroggaBio	C1000-1	
Micropipettor (20-200 µl)	FroggaBio	C200-1	
Sterile Pipette Tips (100-1,250 µl)	VWR	89079-472	
Sterile Pipette Tips (1-200 µl)	VWR	89079-460	
Fisher Scientific Economy Burner	Fisher Scientific	03-917Q	
Incubator Shaker	New Brunswick Scientific	M1352-00000	
Sterile Erlenmeyer Flask (125 ml)	Pyrex (Sigma Aldrich)	CLS4980125 Aldrich	
Sterile Erlenmeyer Flask (250 ml)	Pyrex (Sigma Aldrich)	CLS4980250 Aldrich	
Sterile Erlenmeyer Flask (500 ml)	Pyrex (Sigma Aldrich)	CLS4980500 Aldrich	
Spectrophotometer	Thermo Fisher Scientific	335901	Model: Genesys 10 Vis
Floor Centrifuge	Beckman Coulter	369001	Model: Avanti J-E
Benchtop Centrifuge	Beckman	362114	Model: GS-6R

Fisher Scientific Analog Vortex Mixer	Fisher Scientific	02-215-365	
1 kb DNA Ladder	New England BioLabs	N3232S	