

Materials List for:

# Automated Gel Size Selection to Improve the Quality of Next-generation Sequencing Libraries Prepared from Environmental Water Samples

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URL: <https://www.jove.com/video/52685>

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## Materials

Name	Company	Catalog Number	Comments
Peristaltic pump Masterflex P/S 1400 Series	Thermo Scientific	1400-1620	
0.2 µm Supor Membrane	VWR	CA28143-969	Pall Corporation, Ann Harbor, MI
Tungsten carbide beads 3 mm (200)	Qiagen	69997	
Isopropyl alcohol 70%	Jedmon Products	825751	Healthcare Plus
DNA away	VWR	7010	Molecular BioProducts, Inc. San Diego, CA
Milli-Q water purification system	Fisher Scientific	ZMQS6VF0Y	Merck Millipore. This system has been discontinued.
20x PBS pH 7.5	VWR	E703-1L	Amresco, Inc., Solon, OH
Tween 20	Fisher Scientific	BP337-100	Fisher chemicals
Vortex adapter for 2 (50 ml) tubes	VWR	13000-V1-50	MoBio, Carlsbad, CA
Vortex-Genie 2, 120 V (Model G560)	VWR	SI-0236	Scientific Industries, Inc.
Beckman Centrifuge	Raeyco Lab Equipment Systems Management Ltd	Model J-6B	
PowerLyzer Powersoil DNA isolation kit	VWR	12855-100	MoBio, Carlsbad, CA
Vortex adapter for 24 (1.5-2 ml) tubes	VWR	13000-V1-24	MoBio, Carlsbad, CA
Microfuge 18 centrifuge	Beckman Coulter	367160	
Nimbus Select workstation with Ranger Technology	Hamilton Robotics	92720-01	Includes the liquid handling workstation and integrated Ranger Tech (electrophoresis hardware)
Ranger reagent kit	Coastal Genomics	CG-10600-150-12-21	Includes loading buffer and cassettes
Ethyl alcohol (anhydrous)	Commercial Alcohols	P016EAAN	Greenfield Ethanol
Sodium acetate	Sigma-Aldrich	S2889-250G	
Linear acrylamide (5 mg/ml)	Life Technologies	AM9520	Ambion
Eppendorf refrigerated centrifuge	Raeyco Lab Equipment Systems Management Ltd.	5417R	
Buffer EB (250 ml)	Qiagen	19086	
NanoDrop 1000 Spectrophotometer	Thermo Scientific	ND-1000	

Qubit fluorometer	Life Technologies	Q32857	Invitrogen. This product has been discontinued.
Qubit dsDNA HS assay kit	Life Technologies	Q32854	Invitrogen
High sensitivity DNA reagent	Agilent Technologies	5067-4626	
High sensitivity DNA chips	Agilent Technologies	5067-4626	
Agilent 2011 Bioanalyzer	Agilent Technologies	G2938B	
Nextera XT DNA sample preparation kit	Illumina	FC-131-1024	
Nextera XT index kit	Illumina	FC-131-1001	
MiSeq reagent kit v2 (500-cycles)	Illumina	MS-102-2003	
MiSeq system	Illumina	SY-410-1003	