

Materials List for

Inducing Polyp Bail-out in Coral Colonies to Obtain Individualized Micropropagates for Laboratory Experimental Use

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Materials

Name	Company	Catalog Number	Comments
5560 Conductivity/Temperature Probe	YSI	5560	Conductivity probe used with the ProQuatro Multiparameter meter
Ace 5 in. Alloy Steel Diagonal Pliers	Ace Hardware	2004083	Used to cut coral fragments
Ampicillin sodium salt	Sigma-Aldrich	A9518	Used in DMEM medium.
DMEM (1x) Dulbecco's Modified Eagle Medium	Gibco	41965-039	Used for incubating coral fragments in the calcium-free polyp bail-out method
Fisherbrand Petri Dish, Stackable Lid 60 mm x 15 mm Sterile, Polystyrene	Thermo Fisher Scientific	FB0875713A	Petri dish used for bail-out by evaporation and for keeping polyps inside an aquarium.
Heizer Titanrohr Heizstab SW MW 600 Watt	Schego	548	Heaters used in aquarium
Leica Application Suite Version 4.2	Leica Microsystems	NA	Software used for image capture in demonstrative results
Leica IC80 HD	Leica Microsystems	12730216	Camera used to take demonstrative results pictures
Leica MDG33	Leica Microsystems	10 450 123	Stereoscope stand used to take demonstrative results pictures
Leica Z6 APO	Leica Microsystems	NA	Macroscope used to take demonstrative results pictures
Magnesium Chloride	Thermo Fisher Scientific	7487-88-9	Used for preparing calcium-free artificial seawater.
Magnesium Sulfate Anhydrous	Sigma-Aldrich	7791-18-6	Used for preparing calcium-free artificial seawater.
Masterflex I/P Easy-Load Pump Head for Precision Tubing, White PPS Housing, SS Rotor	Masterflex	HV-77602-10	Peristaltic pump head.
Masterflex L/S Precision Modular Drives with Benchtop Controller	Masterflex	EW-07557-00	Peristaltic pump drive used for pumping high salinity seawater. Can be substituted for any peristaltic

			pump capable of maintaining water flow as described in protocol.
Masterflex L/S Precision Pump Tubing, Platinum-Cured Silicone, L/S 16; 25 ft	Masterflex	HV-96410-16	Tubing for peristaltic pump.
Millex 33 mm PVDF 0.22 µm Sterile RUO	Sigma-Aldrich	SLGVR33RS	Used to filter artificial sea water.
Nunc EasYFlask 75 cm ² Nunclon Delta Surface	Thermo Fisher Scientific	156499	Flask usually used for cell culture used for polyp culture.
Orbital shaker, Advanced 5000, VWR	VWR	444-2916	Shaker used inside incubator.
Percival Incubator - I-22VL	Percival	NA	Incubator used for maintaining corals kept in cell flasks.
Plankton net 200 µm mesh size	KC Denmark	NA	Used for covering petri dishes containing coral polyps.
Potassium Chloride	VWR Chemicals	7447-40-7	Used for preparing calcium-free artificial seawater.
ProQuatro Multiparameter Meter	YSI	606950	Used for measuring salinity throughout the protocol
RADION XR15 G5 PRO	Ecotech	NA	Lights used in aquarium
Red Sea Salt Premium grade, moderate Alkalinity	Red Sea	NA	Used to prepare 40 PSU artificial sea water.
Sodium Bicarbonate	Sigma-Aldrich	144-55-8	Used for preparing calcium-free artificial seawater.
Sodium Chloride	Sigma-Aldrich	S3014	Used for preparing calcium-free artificial seawater.
Sodium Sulfate Anhydrous	VWR Chemicals	7757-82-6	Used for preparing calcium-free artificial seawater.
TRD 112 thermostat	Schego	NA	Thermostat used in aquarium
Turbelle Nanostream 6025	Tunze	6025 000	Pumps used in aquarium