

A Small-Scale Setup for Algal Toxicity Testing of Nanomaterials and Other Difficult Substances

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Materials

Name	Company	Catalog Number	Comments
Acetone	Sigma-Aldrich	V179124	
Ammonium chloride	Sigma-Aldrich	254134	
BlueCap bottles (1L)	Buch & Holm A/S	9072335	
Boric acid	Sigma-Aldrich	B0394	
Calcium chloride dihydrate	Sigma-Aldrich	208290	
Clear acrylic sheet (40x40 cm)			
Cobalt(II) chloride hexahydrate	Sigma-Aldrich	255599	
Copper(II) chloride dihydrate	Sigma-Aldrich	307483	
Ethylenediaminetetraacetic acid disodium salt dihydrate	Sigma-Aldrich	E5134	
Fluorescence Spectrophotometer F-7000	Hitachi		
Hydrochloric acid	Sigma-Aldrich	258148	
Iron(III) chloride hexahydrate	Sigma-Aldrich	236489	
LED light source	Helmholtz Elektronik A/S	H35161	Neutral White, 6500K
Magnesium chloride hexahydrate	Sigma-Aldrich	M9272	
Magnesium sulfate heptahydrate	Sigma-Aldrich	230391	
Manganese(II) chloride tetrahydrate	Sigma-Aldrich	221279	
Orbital shaker	IKA	2980200	
Potassium phosphate monobasic	Sigma-Aldrich	P0662	
Raphidocelis subcapitata	NORCCA		NIVA-CHL1 strain
Scintillation vials (20 mL)	Fisherscientific	11526325	
Sodium bicarbonate	Sigma-Aldrich	S6014	
Sodium hydroxide	Sigma-Aldrich	415413	
Sodium molybdate dihydrate	Sigma-Aldrich	331058	
Spring clamp	Frederiksen Scientific A/S	472002	
Thermostatic cabinet	VWR	WTWA208450	Alternative: temperature controlled room

Ventilation pipe (Ø125 mm)	Silvan	22605630165	
Volumetric flasks (25 mL)	DWK Life Sciences	246781455	
Zinc chloride	Sigma-Aldrich	208086	