

Materials List for:

Purification of High Molecular Weight Genomic DNA from Powdery Mildew for Long-Read Sequencing

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Materials

Name	Company	Catalog Number	Comments
MM400 Ball Mill	Retsch	20.745.0001	Or equivalent ball mill
2 mL tubes for ball milling	Sarstedt	72.694.007	
5/32" stainless steel milling balls	OPS Diagnostics	GBSS 165-5000-01	
Microprocessor controlled 280 Series Water Bath Preset to 65 °C	Thermo Fisher Scientific	2825	Or equivalent water bath
Microprocessor controlled 280 Series Water Bath Preset to 37 °C	Thermo Fisher Scientific	2825	Or equivalent water bath
Eppendorf 5417R refrigerated microcentrifuge	Krakeler Scientific	38-022621807	Or equivalent microcentrifuge
Chloroform:IAA (24:1 v/v)	Sigma-Aldrich	C0549	Hazardous in case of skin contact or inhalation. Wear nitrile gloves, protective eyewear, lab coat and work in chemical hood
Phenol:Chloroform:IAA (25:24:1 v/v)	Thermo Fisher Scientific	15593031	Hazardous in case of skin contact or inhalation. Wear nitrile gloves, protective eyewear, lab coat and work in chemical hood
100% Isopropanol	Sigma-Aldrich	W292907	
100% Ethanol	Sigma-Aldrich	34923	Chill to -20 °C prior use
Sodium Acetate	Sigma-Aldrich	S2889	
Rnase, Dnase-free (10 mg/mL)	Thermo Fisher Scientific	EN0531	
Potassium metabisulfite	Sigma-Aldrich	P2522	
Sodium Lauryl Sacroinate	Sigma-Aldrich	L9150	
Tris base	Sigma-Aldrich	10708976001	
Ethylenediaminetetraacetic acid (EDTA)	Sigma-Aldrich	EDS	
Sodium chloride (NaCl)	Sigma-Aldrich	S9888	
Cetyltrimethyl ammonium bromide (CTAB)	Sigma-Aldrich	H6269	
Uvex by Honeywell Futura Goggles S345C, Uvextreme	Staples	423263	Or equivalent eyewear
High Five COBALT nitrile gloves, LARGE	Neta Scientific	HFG-N193	Or equivalent gloves
GelRed Nucleic Acid Gel Stain 10,000x in water	Biotium	41003	

Ethidium Bromide 10 mg/mL	Biotium	40042	Hazardous in case of skin contact. Wear nitrile gloves and protective eyewear
Agarose Ultrapure Bioreagent	VWR International LLC	JT4063	
GeneRuler 1 kb Plus DNA Ladder	Thermo Fisher Scientific	FERSM1332	
8 - 48 kb CHEF DNA size standards	Bio-Rad	170-3707	
Pippin Prep	Life Technologies Corporation	4472172	Or equivalent pulse-field gel apparatus
Whatman qualitative filter paper, Grade 1	Sigma-Aldrich	WHA1001042	Or equivalent growth chamber
Percival Growth Chamber	Percival	AR66LXC9	
NanoDrop 8000 UV-Vis Spectrophotometer	Thermo Fisher Scientific	ND-8000-GL	Or equivalent spectrophotometer
Quant-iT PicoGreen dsDNA Assay Kit	Thermo Fisher Scientific	P11496	
TAE Buffer (Tris-acetate-EDTA) (50x)	Thermo Fisher Scientific	B49	Dilute 1/50 with water before use (to 1x)
TE Buffer	Thermo Fisher Scientific	12090015	
Tris-Borate-EDTA, 10x Solution (Electrophoresis)	Thermo Fisher Scientific	BP13334	Dilute 1/10 with water before use (to 1x)
Liquid Nitrogen			Liquid nitrogen (-196 °C) is a freezing hazard. It will also expand rapidly upon warming and should not keep in a tightly closed container