

Extraction of Diatom DNA from Water Samples and Tissues

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Materials

Name	Company	Catalog Number	Comments
Binding Buffer	BioTeke	B010006022	rapidly lysing cells
ChemoHS qPCR Mix	Monad	00007547-120506	qPCR Mix
D2000 DNA ladder	Real-Times(Beijing) Biotechnology	RTM415	Measure the position of electrophoretic bands
D512	Taihe Biotechnology	TW21109196	forward primer
D978	Taihe Biotechnology	TW21109197	reverse primer
Elution buffer	BioTeke	B010006022	A low-salt elution buffer washes off the DNA
Glass bead	Yingxu Chemical Machinery(Shanghai)	70181000	Special glass beads for dispersing and grinding
Import adsorption column	BioTeke	B2008006022	Adsorption column with silica matrix membrane
Inhibitor Removal Buffer	BioTeke	B010006022	Removal of Inhibitors in DNA Extraction
Isopropanol	BioTeke	B010006022	Precipitate or isolate DNA
MIX-30S Mini Mixer	Miulab	MUC881206	oscillatory action
Proteinase K	BioTeke	B010006022	Inactivation of intracellular nucleases and other proteins
Rotor-Gene Q 5plex HRM	Qiagen	R1116175	real-time fluorescence quantification PCR
Speed Micro-Centrifuge	Scilogex	9013001121	centrifuge
Tanon 3500R Gel Imager	Tanon	16T5553R-455	gel imaging
Taq Mix Pro	Monad	00007808-140534	PCR Mix
Thermo Cycler	Zhuhai Hema	VRB020A	ordinary PCR
Wash Buffer	BioTeke	B010006022	Remove impurities such as cell metabolites