

Materials List for

# Establishment and Maintenance of Gnotobiotic American Cockroaches (*Periplaneta americana*)

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## Materials

Name	Company	Catalog Number	Comments
2X master mix	New England BioLabs	M0482	OneTaq MasterMix
Autoclavable rat chow	Zeigler	NIH-31 Modified Auto	
Bacterial DNA extraction kit	Omega Bio-Tek	D-3350	E.Z.N.A. Bacterial DNA kit; includes lysozyme, glass beads, proteinase K, buffers (proteinase K, binding, wash, elution), DNA columns, 2-mL collection tube
binding buffer	Omega Bio-Tek	PD099	included in Omega Biotek's bacterial DNA extraction kit ("HBC" buffer)
brain-heart infusion (BHI) broth	Research Products International	B11000	
Delicate task wipes	KimWipe	JS-KCC-34155-PK	KimWipes
DNA purification kit	Omega Bio-Tek	D6492	E.Z.N.A. Cycle Pure kit; D6493 may also be used; includes buffers (purifying ,wash, elution)
elution buffer	Omega Bio-Tek	PDR048	included in Omega Biotek's bacterial DNA extraction kit
glass beads	Omega Bio-Tek	n/a	included in Omega Biotek's bacterial DNA extraction kit
Hybridization oven	UVP	95-0330-01	we use a hybridization oven for preheating elution buffer, but a water bath could probably also be used
Laminar flow biological safety cabinet	NuAire, Inc.	NU-425-400	Protocol refers to this as "laminar flow hood" for brevity
lysozyme	Omega Bio-Tek	n/a	included in Omega Biotek's bacterial DNA extraction kit
peracetic acid stock solution (32%)	Sigma-Aldrich	269336	
Petroleum jelly	Vaseline	n/a	
proteinase K buffer	Omega Bio-Tek	PD061	included in Omega Biotek's bacterial DNA extraction kit ("TL buffer")
purifying buffer	Omega Bio-Tek	PDR042	included in Omega Biotek's CyclePure kit ("CP" buffer)
RsaI	New England BioLabs	R0167	Includes CutSmart (digestion) buffer

Secondary container	n/a	n/a	a plastic container with a lid (such as a Kritter Keeper) works well for this (25cm long x 15cm wide x 22cm high); it should be large enough to fit BHI slants and test tubes
spectrophotometer	ThermoFisher	ND-2000	Catalog info is for NanoDrop2000
thermal shaker	Eppendorf	EP5386000028	Thermomixer R
Tris-EDTA	Fisher	BP1338-1	10 mM Tris, 1 mM EDTA, pH 8
wash buffer	Omega Bio-Tek	PDR044	included in Omega Biotek's bacterial DNA extraction kit ("DNA wash" buffer)
Woodchip bedding	P.J. Murphy Forest Products	Sani-Chips	