

Materials List for

Compost Microcosms as Microbially Diverse, Natural-like Environments for Microbiome Research in *Caenorhabditis elegans*

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Materials

Name	Company	Catalog Number	Comments
AMPure XP Reagent, 60 mL	Beckman Coulter	A63881	Supplementary File Step 1.3
Bleach (Sodium Hypochlorite)	Sigma-Aldrich	7681-52-9	Step 6.5
DNeasy PowerSoil Pro Kit	Qiagen	47016	Step 7 DNA extractions
dNTP set 10 mM	Invitrogen	18427013	Supplementary Step 1.2
Easypet 3 Serological Pipette Controller	Eppendorf	443000018	Used to remove supernatant when specified
Greiner Bio-One 25 mL Sterile Serological Pipets	Fisher Scientific	07-000-368	Used to remove supernatant when specified
KH ₂ PO ₄	Fisher Scientific	P285-500	Used to make M9
Levamisole Hydrochloride	Fisher Scientific	AC187870100	Step 6.4
M9 Minimal Media Solution	Prepared in-house	N/A	Recipe in wormbook.org
MgSO ₄	Fisher Scientific	M63-500	Used to make M9
MiniSeq High Output Reagent Kit (150 cycles)	Illumina	FC-420-1002	Supplementary Step 1.7
MiniSeq System	Illumina	SY-420-1001	Commercial sequencer used; Supplementary Step 1.7
Na ₂ HPO ₄	Fisher Scientific	S374-500	Used to make M9
NaCl	Fisher Scientific	S271-3	Used to make M9
Nematode Growth Media (NGM)	Prepared in-house	N/A	Recipe in wormbook.org
Nextera XT DNA Library Preparation Kit (96 samples)	Illumina	FC-131-1096	Library prep kit used; Supplementary Step 1.4
PhiX Control v3	Illumina	FC-110-3001	Supplementary Step 1.7
Phusion High-Fidelity DNA Polymerase	New England Biolabs	M0530L	Supplementary Step 1.2
PowerLyzer 24 Homogenizer (110/220 V)	Qiagen	13155	Step 7.3
Qubit dsDNA HS Assay Kit	Invitrogen	Q32851	Supplementary Steps 1.1 & 1.6
Qubit Fluorometer	Invitrogen	Q33238	Supplementary Steps 1.1 & 1.6

Triton X-100	Fisher Scientific	BP-151	Used to prepare M9+T
Zirconia/Silica Beads 1.0 mm diameter	Fisher Scientific	NC9847287	Step 7.1