

Materials List for:

Large Insert Environmental Genomic Library Production

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Materials

| Name | Company | Catalog Number | Comments |
|---|---------------------------|----------------|---|
| Step II | | | |
| CopyControl™ Fosmid Library Production Kit | Epicentre Biotechnologies | CCFOS110 | sufficient to generate 9-10 fosmid libraries |
| SeaPlaque Agarose | Cambrex | 50100 | |
| stirring hot plate | Corning | PC-420D | |
| 1.0X TAE running buffer | | | |
| CHEF Mapper XA pulsed field electrophoresis system including cooling module and variable speed pump | Bio-Rad | | |
| λ DNA-HindIII Digest | New England Biolabs | N3012S | |
| MidRange I PFG Marker | New England Biolabs | N3551S | |
| 10,000X SYBR Gold | Invitrogen | S11494 | |
| microwavable plastic wrap | Saran premium wrap | | |
| Safe Imager transilluminator | Invitrogen | S37102 | |
| GELase Agarose Gel-Digesting Preparation | Epicentre Biotechnologies | G09100 | |
| scalpel | Fisher Scientific | 08-927-5D | |
| Amicon Ultra-4 Centrifugal Filter Unit with Ultracel-10 membrane | EMD Millipore | UFC801024 | |
| Microcon YM-30 Centrifugal Filter Unit | EMD Millipore | 42410 | |
| nuclease free water | Ambion | AM9932 | |
| Quant-iT PicoGreen dsDNA Assay Kit *2000 assays*# | Invitrogen | P7589 | |
| digital dry block heater | VWR international | 12621-088 | |
| water bath | VWR international | 14231-854 | |
| centrifuge | Beckman Coulter Inc. | Avanti J-E | |
| centrifuge rotor | Beckman Coulter Inc. | JA 5.3 | |
| table top centrifuge | Eppendorf | 5415D | |
| microcentrifuge tubes, 1.7 mL, clear | Axygen Scientific | MCT-175-C | |
| 15 mL centrifuge tubes | Fisher Scientific | 430052 | |
| Step III | | | |
| LB broth | Fisher Scientific | BP 1426-2 | |
| MgSO ₄ | Sigma-Aldrich | M2643 | |
| phage dilution buffer | | | 10 mM Tris-HCl [pH 8.3], 100 mM NaCl, 10 mM MgCl ₂ |

| | | | |
|-----------------------------------|-------------------|----------------|--|
| cryogenic vials | Fisher Scientific | 430488 | |
| Step IV | | | |
| 96 well plate with lid | Fisher Scientific | CS003370(3370) | |
| 384 well plate with lid | Fisher Scientific | 07201157(3680) | |
| Petri dishes 100 O.D. x 15mm H | Fisher Scientific | 08-757-12 | |
| Petri dishes 150 Dia. x 15mmH | Fisher Scientific | 08-757-14 | |
| BD Falcon BioDish XL 245 X 245 mm | VWR international | CABD351040 | |
| glycerol | Sigma-Aldrich | G5516 | |
| chloramphenicol | Sigma-Aldrich | C0378 | |
| LB broth | Fisher Scientific | BP 1426-2 | |
| Difco Agar | BD Biosciences | 214530 | |
| glass beads | Fisher Scientific | 10-310-1 | |
| QFill3 | Genetix | X3050 | |
| Bleach | Javex | | |
| Ethanol | Sigma-Aldrich | E7023 | |
| 15 mL centrifuge tubes | Fisher Scientific | 430052 | |
| QPix colony picker | Genetix | QPix2 | |
| picking head (E. coli) | Genetix | X4006 | |