

Characterization of a Pathogenic *Escherichia coli* Strain Derived from *Oreochromis* spp. Farms Using Whole-Genome Sequencing

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Materials

Name	Company	Catalog Number	Comments
Accublock Mini digital dry bath	Labnet	D0100	Dry bath for incubation of tubes
Agencourt AMPure XP	Beckman Coulter	A63881	Magnetic beads in solution for DNA library purification
DeNovix DS-11	DeNovix Inc.		UV-Vis spectrophotometer to check the quality of the gDNA extracted
DNA LoBind Tubes	Eppendorf	0030108418	1.5 mL PCR tubes for DNA library pooling
DynaMag-2 Magnet	Invitrogen, Thermo Fisher Scientific	12321D	Magnetic microtube rack used during magnetic beads-based DNA purification
Gram-negative Multibac I.D.	Diagnostic reseach (Mexico)	PT-35	Commercial standard antibiotic disks for antimicrobial susceptibility testing
MiniSeq Mid Output Kit (300-cycles)	Illumina	FC-420-1004	Reagent cartridge for paired-end sequencing (2x150)
MiniSeq System Instrument	Illumina	SY-420-1001	Benchtop sequencer used for Next-generation sequencing
MiniSpin centrifuge	Eppendorf	5452000816	Standard centrifuge for tubes
Nextera XT DNA Library Preparation Kit	Illumina	FC-131-1024	Reagents to perform DNA libraries for sequencing. Includes Box 1 and Box 2 reagents for 24 samples
Nextera XT Index Kit v2	Illumina	FC-131-2001, FC-131-2002, FC-131-2003, FC-131-2004	Index set A, B, C, D
PhiX Control v3	Illumina	FC-110-3001	DNA library control for sequencing
Precision waterbath	LabCare America	51221081	Water bath shaker used for bacterial culture
Qubit 1X dsDNA HS Assay Kit	Invitrogen, Thermo Fisher Scientific	Q33231	Reagents for fluorescence-based DNA quantification assay
Qubit 2.0 Fluorometer	Invitrogen, Thermo Fisher Scientific	Q32866	Fluorometer used for fluorescence assay

Qubit Assay tubes	Invitrogen, Thermo Fisher Scientific	Q32856	0.5 mL PCR tubes for fluorescence-based DNA quantification assay
SimpliAmp Thermal Cycler	Applied Biosystems, Thermo Fisher Scientific	A24811	Thermocycler used for DNA library amplification
Spectronic GENESYS 10 Vis	Thermo	335900	Spectrophotometer used for bacterial suspension in antimicrobial susceptibility testing
ZymoBIOMICS DNA Miniprep Kit	Zymo Research Inc.	D4300	Kit for genomic DNA extraction (50 preps)