

Materials List for:

# Whole Genome Sequencing of *Candida glabrata* for Detection of Markers of Antifungal Drug Resistance

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URL: <https://www.jove.com/video/56714>

DOI: [doi:10.3791/56714](https://doi.org/10.3791/56714)

## Materials

| Name   | Company                                     | Catalog Number                                     | Comments  |
|--|---|--|---|
| DensiCHECK Plus                                      | BioMérieux Inc                              | K083536  | Densitometer used for McFarland readings  |
| Sensititre YeastOne                                  | TREK Diagnostic Systems, Thermo Scientific  | YO10   | Commercial susceptibility assay plate with standard antifungal drugs.   |
| Fisherbrand Disposable Inoculating Loops and Needles | Fisher Scientific, Thermo Fisher Scientific | 22-363-605   | Disposable plastic loops can be used directly from package. No flaming required.  |
| Eppendorf Safe-Lock microcentrifuge tubes            | Sigma Aldrich, Merck                        | T2795  | Volume 2.0 mL, natural  |
| ZYMOLYASE 20T from <i>Arthrobacter luteus</i>        | MP Biomedicals, LLC                         | 8320921  | Used for cell wall lysis of fungal isolate before DNA extraction  |
| Wizard Genomic DNA Purification Kit                  | Promega                                     | A1120  | Does 100 DNA extractions  |
| Quant-iT PicoGreen dsDNA Assay Kit                   | Thermo Fisher Scientific                    | P7589  | Picogreen reagent referred to as fluorescent dye in the protocol. Includes Lambda DNA standard and picogreen reagent for assay. |
| Nextera XT DNA Sample Preparation Kit                | Illumina                                    | FC-131-1096  | Includes Box 1 and Box 2 reagents for 96 samples  |
| Nextera XT Index Kit v2                              | Illumina                                    | FC-131-2001, FC-131-2002, FC-131-2003, FC-131-2004 | Index set A<br>Index set B<br>Index set C<br>Index set D  |
| NextSeq 500/550 High Output Kit v2                   | Illumina                                    | FC-404-2004  | 300 cycles, More than 250 samples per kit   |
| NextSeq 500 Mid Output v2 Kit                        | Illumina                                    | FC-404-2003  | 300 cycles, More than 130 samples per kit   |
| PhiX Control Kit                                     | Illumina                                    | FC-110-3001  | To arrange indices from Index kit in order  |
| TruSeq Index Plate Fixture Kit                       |   | FC-130-1005  | 2 Fixtures  |

|  |                          |            |  |
|--|--------------------------|------------|--|
| KAPA Library Quantification Kit for Next-Generation Sequencing | KAPA Biosystems          | KK4824     | Includes premade standards, primers and MasterMix      |
| Janus NGS Express Liquid handling system                       | PerkinElmer              | YJS4NGS    | Used for DNA dilutions during sequencing               |
| 0.8 mL Storage Plate   | Thermo Scientific        | AB0765B    | MIDI Plate for DNA Library cleanup and normalisation   |
| Agencourt AMPure XP  | Beckman Coulter          | A63881     | Magnetic beads in solution for library purification    |
| Magnetic Stand-96  | Thermo Fisher Scientific | AM10027    | Used for magnetic bead based DNA purification          |
| OrbiShaker MP  | Benchmark Scientific     | BT1502     | 96-well plate shaker with 4 platforms                  |
| Hard Shell PCR Plate   | BioRad                   | HSP9601    | Thin Wall, 96 Well                                     |
| LightCycler 480 Instrument II                                  | Roche                    | 5015278001 | Accommodates 96 well plate                             |
| Microseal 'B' PCR Plate Sealing Film, adhesive, optical        | BioRad                   | MSB1001    | Clear 96-well plate sealers                            |
| CLC Genomics Workbench   | Qiagen                   | CLCBio     | Software for data analysis, Version 8                  |
| NextSeq500 instrument  | Illumina                 | Illumina   | Benchtop Sequencer used for next generation sequencing |