

Appendix A: Supplies and Reagents

This appendix provides a consolidated checklist of supplies and reagents used across Modules 1 through 8.

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Core Supplies and Equipment

- Disposable lab coats, nitrile gloves, and safety goggles
- Benchtop disinfectant (70% ethanol)
- Micropipettes (single channel and multichannel)
- Sterile pipette tips (appropriate volumes, preferably filtered)
- Sterile reservoirs for multichannel loading
- Sterile microcentrifuge tubes and culture tubes
- DNA LoBind 1.5 ml microfuge tubes (Eppendorf)
- Centrifuge and microcentrifuge
- Vortex mixer
- Shaking incubator for 30°C and 33°C incubation
- Incubator for 30-33°C static cultures and plates
- 96-well microplates
- Breathe-Easy breathable plate seals
- Peg-lid biofilm assay plates
- Cerillo Duet co-culture plate system
- Plate reader (OD600 kinetic and endpoint absorbance)
- Invitrogen Qubit fluorometer and assay tubes
- Invitrogen Qubit dsDNA HS Assay Kit
- Turbidimeter (Biolog Turbidimeter or equivalent)
- Sterile loops for colony transfer
- Biohazard waste containers

Microbiology Media and Biological Materials

- *Delftia acidovorans* isolates and comparison isolates
- Tryptic Soy Agar (TSA) plates (Teknova or Hardy Diagnostics)
- Tryptic Soy Broth (TSB) for liquid cultures (Teknova or Hardy Diagnostics)
- Biolog Blood Universal Growth (BUG) agar
- Biolog GEN III Microplates
- Biolog IF-A inoculating fluid (for Biolog GEN III assays)
- Phosphate-buffered saline (PBS)

Reagents for Pipetting and Assay Setup

- MiniPCR micropipetting cards
- Crystal violet solution (serial dilution activity)
- Dyed water solutions (blue, yellow, red food coloring) for volume challenge

- Dojindo biofilm viability detection reagent components:
 - WST solution
 - Electron mediator reagent
 - TSB diluent

DNA Extraction and Sequencing Reagents

- TE buffer (Ambion)
- Sigma Lysozyme (10 mg/mL in TE; powder form stored at -80°C)
- New England Biolabs (NEB) Monarch Proteinase K
- New England Biolabs (NEB) Monarch RNase A
- CTAB buffer (Promega)
- New England Biolabs (NEB) Monarch gDNA Binding Buffer
- New England Biolabs (NEB) Monarch wash buffers
- New England Biolabs (NEB) Monarch gDNA Elution Buffer
- Oxford Nanopore Technologies (ONT) Rapid Barcoding Kit (SQK-RBK114.24) reagents
- ONT Flow Cells (FLO-MIN114) and associated reagents for sequencing runs

Computational and Data Resources

- Electronic lab notebook (ELN)
- Quarto for workbook rendering
- BV-BRC.org account and workspace for assembly and annotation workflows
- SeqHub.org for genome exploration

Notes

- Prepare all sterile materials in advance and confirm lot numbers where required.
- Record any reagent substitutions, concentration changes, or protocol deviations in the ELN.
- Follow institutional biosafety and chemical safety policies at all times.