

Materials List for

Isolation of Total RNA from *Pseudomonas aeruginosa* within Biofilms for Measuring Gene Expression

Kevin Guttman¹, Pauline Wang², Lindsay Jackson¹, Amanda Morris¹, Yvonne Yau³, Valerie Waters^{1,4}

¹Translational Medicine, Hospital for Sick Children ²Department of Cell and Systems Biology, University of Toronto ³Microbiology, Department of Pediatric Laboratory Medicine, Hospital for Sick Children ⁴Infectious Diseases, Department of Pediatrics, Hospital for Sick Children

Corresponding Author

Valerie Waters

valerie.waters@sickkids.ca

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Materials

Name	Company	Catalog Number	Comments
Agilent 2100 Bioanalyzer	Agilent	G2939BA	Automated electrophoresis of biomolecules
Agilent RNA 6000 pico kit	Agilent	5067-1513	High sensitivity RNA electrophoresis chip to generate a RIN
DNA/RNA Lysis Buffer	Zymo Research	D7001-1-50	A guanidinium thiocyanate and N-Lauroylsarcosine-based lysis buffer sold as part of a nucleic acid purification kit
DNA/RNA Prep Buffer	Zymo Research	D7010-2-10	A guanidine HCl and ethanol buffer used for purification of DNA and RNA
DNA/RNA Shield	Zymo Research	R1100-50	DNA and RNA preservation/protection reagent
DNA/RNA Wash Buffer	Zymo Research	D7010-3-6	A salt and ethanol buffer used for purification of DNA and RNA
DNBSEQ G-400RS	MGI	G-400RS	High throughput sequencer
MGIEasy RNA Directional Library Prep Set	MGI	1000006386	Generate libraries for MGI high-throughput sequencing platforms from total RNA.
Mini-Beadbeater-96	BioSpec	1001	A high energy, high throughput cell disrupter
NEBNext rRNA Depletion Kit (bacteria)	New England Biolabs	E7850X	Efficient and specific depletion of bacterial rRNA (5S, 16S, 23S)
Nunc Lab-Tek II chamber slide system	Thermo Fisher Scientific	154534	8-well chamber slide with removable wells
Qubit Fluorometer	Thermo Fisher Scientific	Q33238	Fluorometer for DNA, RNA and proteins
Qubit RNA HS Assay Kit	Thermo Fisher Scientific	Q32852	High sensitivity fluorometric assay to measure RNA concentration
Spin-Away Filters	Zymo Research	C1006-50-F	Silica-based spin column primarily used to bind or remove genomic DNA
Sterile inoculation loops, 1 uL	Sarstedt	86.1567.050	Sterile, disposable inoculation loops for manipulation of microorganisms

ZR BashingBead Lysis tubes	Zymo Research	S6003-50	2 mL tubes containing 0.1 and 0.5 mm bead lysis matrix for homogenizing biological samples
Zymo Spin III-CG Columns	Zymo Research	C1006-50-G	Silica-based spin column for purification of DNA and RNA
Zymo-Spin III-HRC Filters	Zymo Research	C1058-50	Remove inhibitors such as polyphenolic compounds, humic/fulvic acids, tannins, melanin, etc.
Zymobiomics DNA/RNA Miniprep kit	Zymo Research	R2002	DNA and RNA dual extraction kit
Zymobiomics HRC Prep solution	Zymo Research	D4300-7-30	To be used with Zymo-Spin III-HRC Filters to remove PCR inhibitors