

**Supplementary Table S2.** List of primers used and the cycling parameters for each PCR assay.

Gene/Clone	Specific gene	Primer sequence	PCR parameters	Product size (bp)	Reference
Antibiotic resistance genes (cephalosporinase [ESBL] genes)	<i>bla<sub>oxa-1</sub></i>	F: 5'-CGCAAATGGCACCAGATTCAAC-3'	94°C/ 30 s, 63.5°C/ 90 s, 72°C/ 90 s (30 cycles)	464	1
		R: 5'-TCCTGCACCAGTTTCCCATACAG-3'			
	<i>bla<sub>CMY-2</sub></i>	F: 5'-TGATGCAGGAGCAGGCTATTCC-3'		323	
		R: 5'-CTAACGTCATCGGGGATCTGC-3'			
	<i>bla<sub>ampC</sub></i>	F: 5'-TGAGTTAGGTTCCGGTCAGCA-3'		98	
		R: 5'-AGTATTTTGTTCGGGGATCG-3'			
	<i>bla<sub>CTX-M</sub></i>	F: 5'-ATGTGCAGYACCAGTAARGTKATGGC-3'		593	
		R: 5'-TGGGTRAARTARGTSACCAGAAAYCAGCGG-3'			
	<i>bla<sub>TEM</sub></i>	F: 5'-TTGCTCACCCAGAAACGCTGGTG-3'		708	
		R: 5'-TACGATACGGGAGGGCTTACC-3'			
	<i>bla<sub>SHV</sub></i>	F: 5'-CGCCGGGTATTCTTATTTGTTCGC-3'		1,016	
		R: 5'-TCTTTCCGATGCCGCCGCCAGTCA-3'			
Antibiotic resistance genes (carbapenemase-encoding genes)	<i>bla<sub>NDM</sub></i>	F: 5'-GGTGCATGCCCCGGTGAAATC-3'	94°C/ 30 s, 60°C/ 90 s, 72°C/ 60 s (30 cycles)	660	
		R: 5'-ATGCTGGCCTTGGGGAACG-3'			
	<i>bla<sub>OXA-48</sub></i>	F: 5'-TTGGTGGCATCGATTATCGG-3'		744	
		R: 5'-GAGCACTTCTTTTGTGATGGC-3'			
	<i>bla<sub>KPC</sub></i>	F: 5'-ATGTCACGTATCGCCGTC-3'		863	
		R: 5'-AATCCCTCGAGCGCGAGT-3'			
	<i>bla<sub>IMP</sub></i>	F: 5'-CCWGATTTAAAAATYGARAAGCTTG-3'		522	
		R: 5'-TGGCCAHGCTTCWAHATTTGCRTC-3'			
	<i>bla<sub>VIM</sub></i>	F: 5'-GTTTGGTTCGCATATCGCAAC-3'		382	
		R: 5'-AATGCGCAGCACCAGGATAGAA-3'			
	<i>bla<sub>GES</sub></i>	F: 5'-ATCAGCCACCTCTCAATGG-3'		302	
		R: 5'-TAGCATCGGGACACATGAC-3'			
ST131	ST131	F: 5'-GACTGCATTTTCGTCGCCATA-3'	94°C/ 30 s, 60°C/ 30 s, 72°C/ 30 s (30 cycles)	310	2
		R: 5'-CCGGCGGCATCATAATGAAA-3'			
ST648	<i>icd96</i>	F: 5'-ACCACTCCGGTTGGTGGT-3'	94°C/ 20 s, 67°C/ 45 s, (30 cycles)	297	3
		R: 5'-AGAACACGGCTTAATACCGATG-3'			
	<i>gyrB87</i>	F: 5'-ATGGTGCCTTCTGGCCC-3'		143	
		R: 5'-TCTTTGCCGTCGCGCTTA-3'			
	<i>uidA</i>	F: 5'-GCGTCTGTTGACTGGCAGGTGGTGG-3'		510	
		R: 5'-GTTGCCCGCTTCGAAACCAATGCCT-3'			

**References for Table S2.**

1. Fernando DM, Tun HM, Poole J, Patidar R, Li R, Mi R, et al. Detection of antibiotic resistance genes in source and drinking water samples from a First Nations community in Canada. *Appl Environ Microbiol.* 2016; 82: 4767–4775.

2. Doumith M, Day M, Ciesielczuk H, Hope R, Underwood A, Reynolds R, et al. Rapid identification of major *Escherichia coli* sequence types causing urinary tract and bloodstream infections. *J Clin Microbiol.* 2015; 53: 160–166.

3. Johnson JR, Johnston BD, Gordon DM. Rapid and specific detection of the

*Escherichia coli* sequence type 648 complex within phylogroup F. J Clin Microbiol. 2017; 55:  
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