

Supplementary data

Cycling Conditions for Pathogen directed qPCR

TaqMan

(Primer concentration 100 μ M)

M. catarrhalis:

Hold: 95°C for 10 minutes.

40 Cycles: 95°C for 15 seconds (Not acquiring), 60°C for 45 seconds (Acquiring to Cycling A yellow), 72°C for 20 seconds (Not acquiring).

P. aeruginosa:

Hold: 95°C for 10 minutes.

40 Cycles: 95°C for 30 seconds (Not acquiring), 60°C for 60 seconds (Acquiring to Cycling A green).

S. pneumoniae:

Hold: 95°C for 10 minutes.

40 Cycles: 95°C for 15 seconds (Not acquiring), 60°C for 45 seconds (Acquiring to Cycling A red), 72°C for 20 seconds (Not acquiring).

SYBR Green

(Primer concentration 100 μ M)

H. influenzae and S. aureus:

Hold: 95°C for 10 minutes.

40 Cycles: 95°C for 20 seconds (Not acquiring), 60°C for 30 seconds (Not acquiring), 72°C for 20 seconds (Acquiring to Cycling A green), 76°C for 20 seconds (Acquiring to Cycling B green).

Melt: 59-99°C with 1°C increase each step, 90 seconds pre-melt, 5 seconds per step.

AMR gene	Primers	Annealing Temperature
<i>AcrA-05</i>	Forward: CGTGCGCGAACGAACA Reverse: ACTTTGCGCGCCATCTTC	60°C
<i>AMPc-04</i>	Forward: TCCGGTGACCGCACAGA Reverse: CAGCACGCCGGTGAAAGT	60°C
<i>cfx-A</i>	Forward: TCATTCCTCGTTCAAGTTTCAGA Reverse: TGCAGCACCAAGAGGAGATGT	60°C
<i>FOX-5</i>	Forward: GGTTTGCCGCTGCAGTTC Reverse: GCGGCCAGGTGACCAA	60°C
<i>PBP2X</i>	Forward: TTTCATAAGTATCTGGACATGGAAGAA Reverse: CCAAAGGAAACTTGCTTGAGATTAG	60°C
<i>TetA-01</i>	Forward: GCTGTTTGTCTGCCGAAA Reverse: GGTTAAGTTCCTTGAACGCAA	60°C

Table 1: AMR targeted qPCR primers for additional genes excluded from further analyses