**Oligonucleotides to detect meningitis bacterial pathogens using triplex real-time PCR**

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| **Real Time PCR Target** | **Primer/Probe** | **Sequence (5’–3’)** | **Conc.(nM)** | **Reference** |
| **Triplex Reaction - 1** | | | | |
| *Streptococcus pneumoniae1* | lytA-F | ACGCAATCTAGCAGATGAAGCA | 200 | Ouattara et al. (2019)7 |
| lytA-R | TCGTGCGTTTTAATTCCAGCT | 200 |
| lytA-P | 5'-FAM-TGCCGAAAACGC"T"TGATACAGGGAG-3'-SpC6 “T”=BHQ1 | 200 |
| *Neisseria meningitidis2* | sodC-F | GCACACTTAGGTGATTTACCTGCAT | 300 |
| sodC-R | CCACCCGTGTGGATCATAATAGA | 300 |
| sodC-P | 5’FAM-CATGATGGCACAGCAACAAATCCTGTTT-3’-BHQ1 | 200 |
| *Haemophilus influenzae3* | hpd-F | GGTTAAATATGCCGATGGTGTTG | 100 |
| hpd-R | TGCATCTTTACGCACGGTGTA | 900 |
| hpd-P | 5’HEX-TTGTGTACACTCCGT“T”GGTAAAAGAACTTGCAC-3'-SpC6 “T”=BHQ1 | 300 |
| **Triplex Reaction – 2** | | | | |
| *Streptococcus pyogenes4* | spy-F | GCACTCGCTACTATTTCTTACCTCAA | 300 | Ouattara et al. (2020)8 |
| spy-R | GTCACAATGTCTTGGAAACCAGTAAT | 300 |
| spy-P | 5'-FAM-CCGCAAC"T"CATCAAGGATTTCTGTTACCA-3'-SpC6 “T”=BHQ1 | 100 |
| *Streptococcus agalactiae5* | cfb-F | GGGAACAGATTATGAAAAACCG | 200 |
| cfb-R | AAGGCTTCTACACGACTACCAA | 200 |
| cfb-P | 5’-FAM-AGACTTCATTGCGTGCCAACCCTGAGAC-3’-BHQ1 | 200 |
| *Streptococcus suis6* | fbpS-F | TCCRATRCTGCTCTGCCATT | 200 |
| fbpS-R | TGATAGTAGAAGTCCAGCARACT | 200 |
| fbpS-P | 5’FAM-AATAGCCC"T"GAAAAMCAGCCACWYTTTGARA-3’-SpC6; “T”=BHQ1 | 100 |

1Carvalho, Mda G. *et al* 2007. Evaluation and improvement of real-time PCR assays targeting *lyt*A, *ply*, and *psa*A genes for detection of pneumococcal DNA. J Clin Microbiol. 45:2460-6.

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4Kodani et al., 2011. Application of TaqMan low-density arrays for simultaneous detection of multiple respiratory pathogens. J Clin Microbiol. 49(6):2175-82.

5Diaz et al. 2013. Optimization of Multiple Pathogen Detection Using the TaqMan Array Card: Application for a Population-Based Study of Neonatal Infection. PLoS One. 21;8(6):e66183.

6Srinivasan et al. 2016. Species-specific real-time PCR assay for the detection of *Streptococcus suis* from clinical specimens. Diagn Microbiol Infect Dis. 85(2): 131-132.

7Ouattara et al., 2019. Triplex real-time PCR assay for the detection of *Streptococcus pneumoniae*, *Neisseria meningitidis* and *Haemophilus influenzae* directly from clinical specimens without extraction of DNA. Diagn Microbiol Infect Dis. 93: 188-190.

8Ouattara et al., 2o20. Identification of *Streptococcus suis* Meningitis by Direct Triplex Real-Time PCR, Burkina Faso. Emerg Infect Dis 26(9): 2223-2226.