|  |  |  |  |
| --- | --- | --- | --- |
| **Type of assay (Target genes)** | **Primer/Probe**  | **Sequences** | **References** |
| **Quadriplex assay** MG (Adhesin P1, MgPa)UU (Urease)UP (Urease)TV (Repeated sequence) | MG FW  | 5’- GAGAARTACCTTGATGGTCAGCAA-3’ | [[15](#_ENREF_15)] |
| MG RV  | 5’- GTTAATATCATATAAAGCTCTACCGTTGTTATC-3’ |
| **MG-P**  | **5’-FAM-ACTTTGCAATCAGAAGGT- MGB-3’** |
| UP-UU FW  | 5’- AAGGTCAAGGTATGGAAGATCCAA-3’ |
| UP-UU-RV  | 5’-TTCCTGTTGCCCCTCAGTCT-3’ |
| **UP-P**  | **5’- CY5-TCCACAAGCTCCAGCAATTTG- BHQ2-3’** |
| **UU-P**  | **5’-HEX-ACCACAAGCACCTGCTACGATTTGTTC-BHQ1-3’** |
| TV FW  | 5’- CATTGACCACACGGACAAAAAG-3’ |
| TV RV  | 5’- CGAAGTGCTCGAATGCGA-3’ |
| **TV-P**  | **5’-Rox-TCATTTCGGATGGTCAAGCAGCCA-BHQ2-3’** |
| **Quadriplex assay** CT (Plasmid/ MOMP)NG (PorA)IC (Synthetic DNA) | CT P FW  | 5´-AACCAAGGTCGATGTGATAG-3´ | [[15](#_ENREF_15)] |
| CT P RV  | 5´-TCAGATAATTGGCGATTCTT-3´ |
| **CT- P-P**  | **5´-FAM-CGAACTCATCGGCG-MGB-3'** |
| CT-M FW  | 5´-GACTTTGTTTTCGACCGTGTT-3´ |
| CT-M RV  | 5´-ACARAATACATCAAARCGATCCCA-3´ |
| **CT-M-P** | **5´-HEX-ATGTTTACVAAYGCYGCTT-MGB-3´** |
| NG FW | 5´-CCGGAACTGGTTTCATCTGATT-3' |
| NG RV  | 5´-GTTTCAGCGGCAGCATTCA-3´ |
| **NG-P** | **5´-ROX-CGTGAAAGTAGCAGGCGTATAGGCGGACTT-BHQ2- 3´** |
| IC FW | 5′-GTGCTCACAC CAGTTGCCGC-3 |
| IC RV | 5′-GCTTGGCAGC TCGCATCTCG-3′ |
| **IC-P** | **5′-CY5-ATTGTGTGGGTGTGGTGTGGGTGTGTGC- BHQ3-3′** |
| **Duplex Assay** MH (16S rRNA)MGI (16S rRNA) | MhF FW | 5’-TTTGGTCAAGTCCTGCAACGA-3’ | [[16](#_ENREF_16)] |
| MhR RV  | 5’-CCCCACCTTCCTCCCAGTTA-3’ |
| **MH-P** | **5’-HEX-TACTAACATTAAGTTGAGGACTCTA-BHQ1-3’** |
| MGi-FW  | 5’-GCAAGTCGAGCGGAGGTAGC-3’ |
| MGi-FW  | 5’-ACTTTCATGCGAATGTATATCATATAAGG-3’ |
| **MGi-P** | **5’-CY5-TTCGCCGCTAAGTGTATTG-BHQ2-3’** |
| **Duplex Assay** GV (Tuf)CA (RNAse P) | GV FW  | 5'- TCCCAACCCCAACTCACGATCTT-3' | [[17](#_ENREF_17), [18](#_ENREF_18)] |
| GV RV  | 5'-CGCAAACCAACRATCTCAACTGG-3' |
| **GV-P** | **5'-CY5-CCATCTCCGGTCGTGGTAC-BHQ1-3'**  |
| CA FW  | 5'- CGGGTGGGAAATTCGGT-3'  |
| CA RV | 5'-CAATGATCGGTATCGGGT-3' |
| **CA-P** | **5'-FAM-CAGCTTGTAGTAAAGAATTACTCAC-BHQ1-3'** |

CT*:Chlamydia trachomatis*, NG:*Neisseria gonorrhoeae,* MG:*Mycoplasma genitalium*, UU:*Ureaplasma urealyticum*, UP:*Urealplasma parvum*, TV:*Trichomonas vaginalis*, MH:*Mycoplasma hominis*, MGI:*Mycoplasma girerdii*, GV:*Gardnerella vaginalis,* CA:*Candida albicans*.

Table S1: Nucleotide sequences of primers and probes