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Figure 1

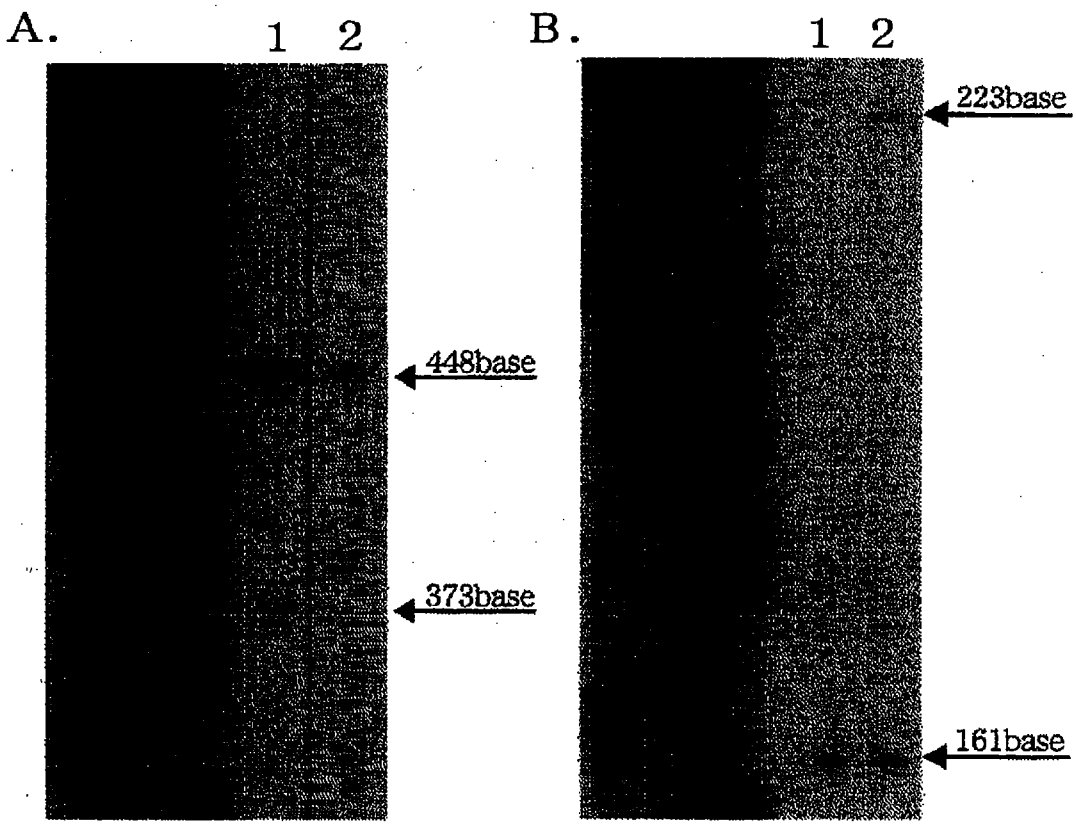


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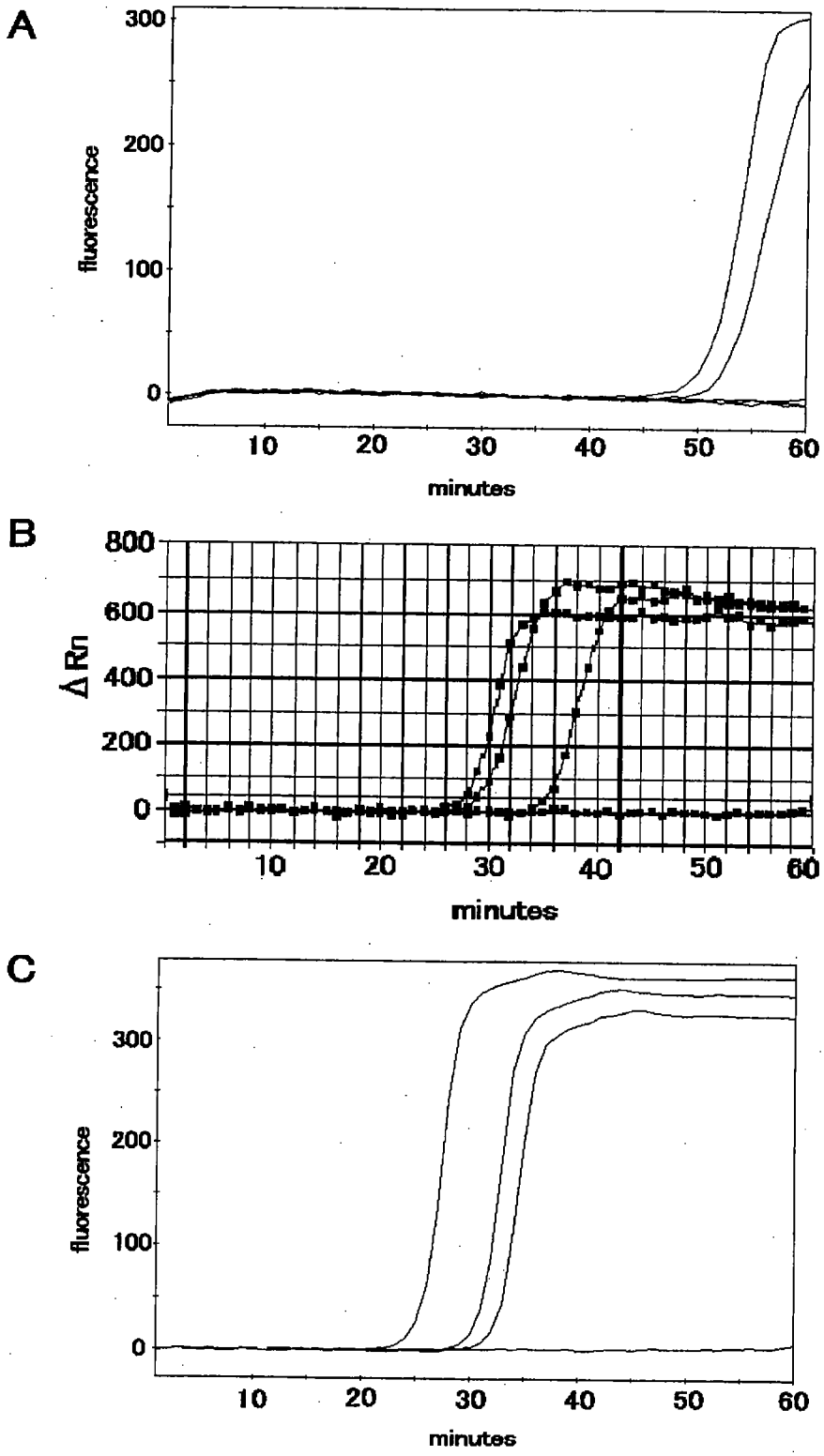

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Figure 3

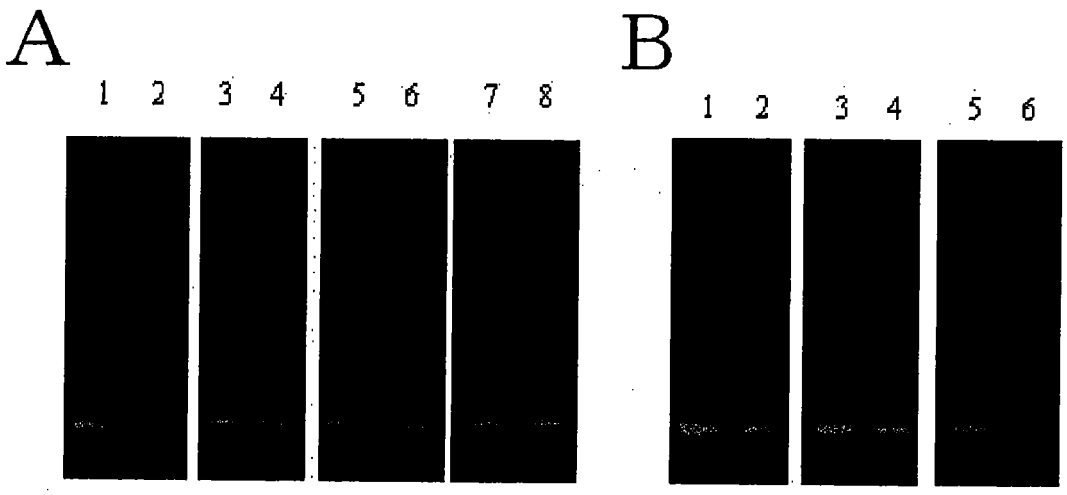


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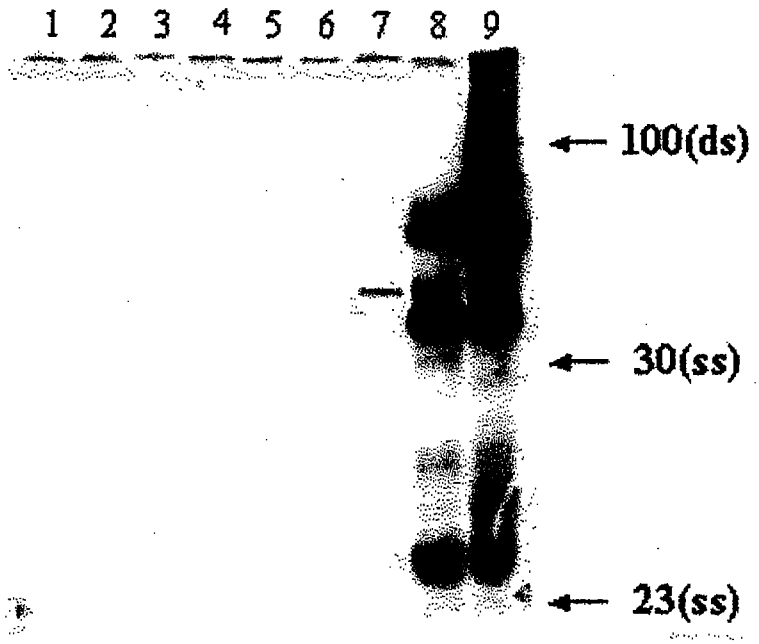


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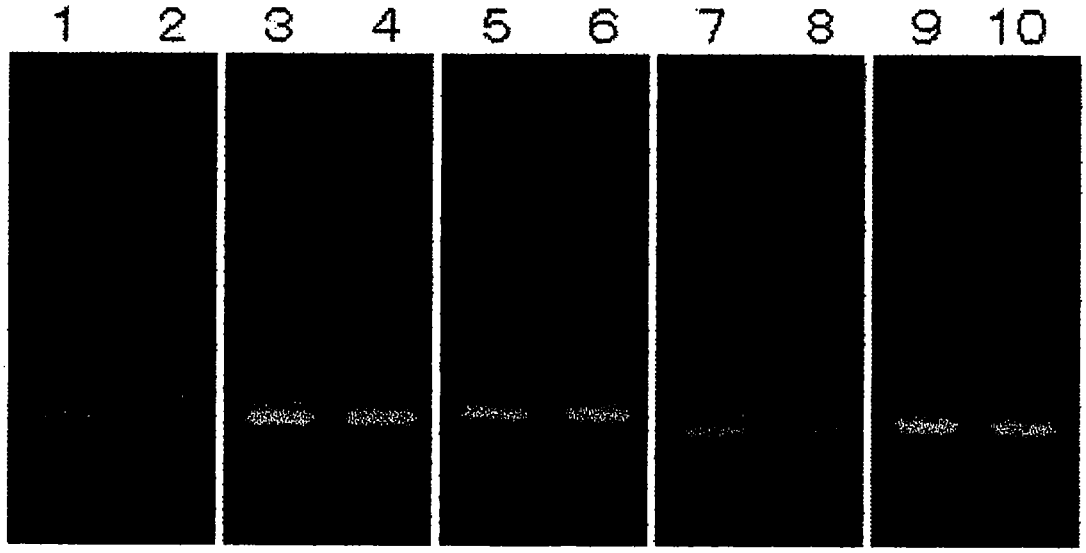


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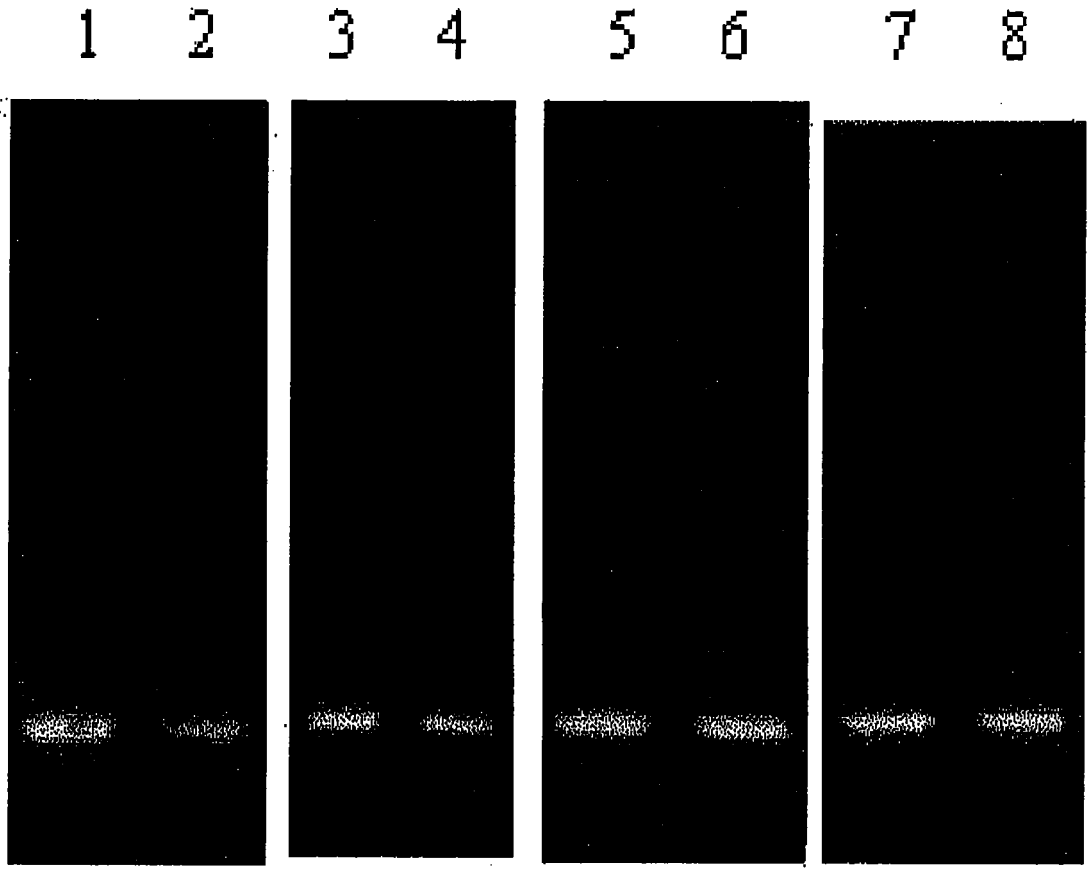
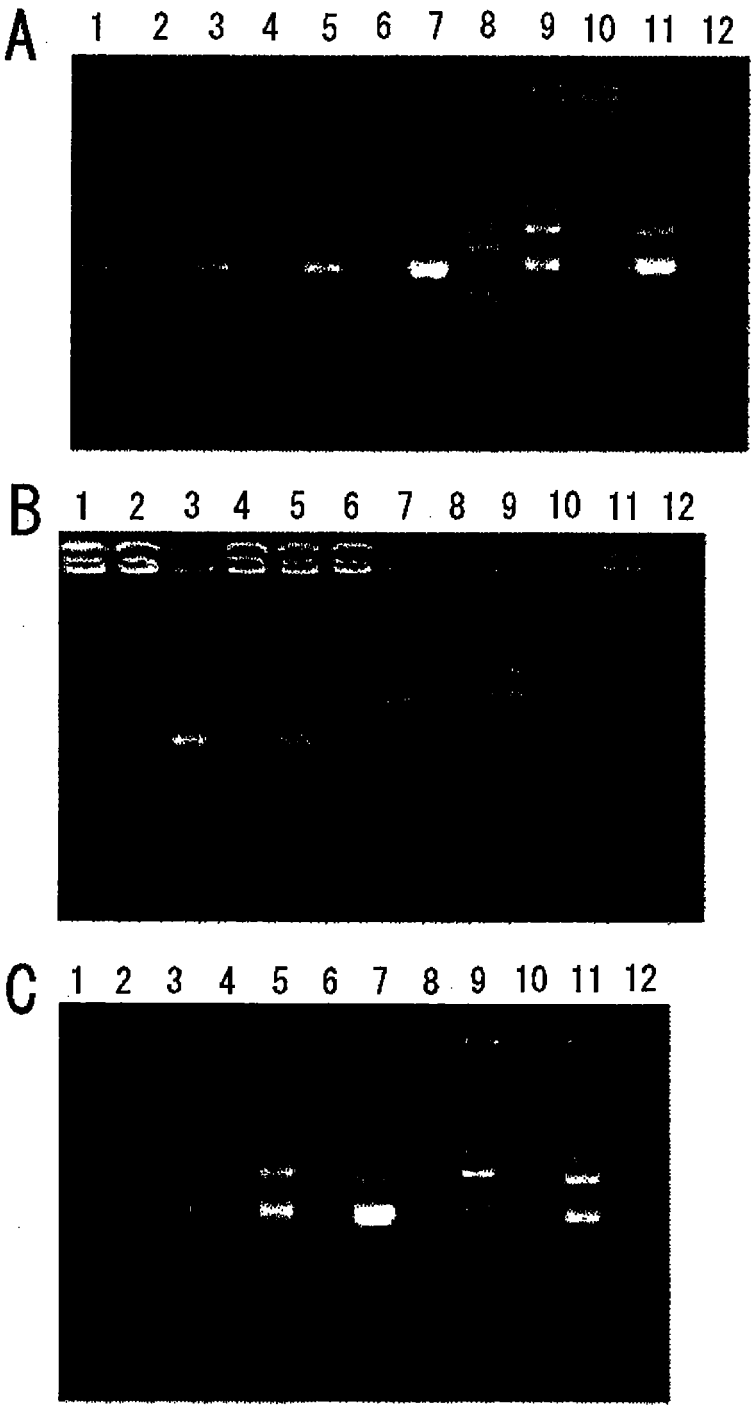


Figure 7



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<223> Designed oligonucleotide probe designated as MTIS-2 to detect a DNA fragment amplifying a portion of nucleotide sequence from Mycobacterium tuberculosis.

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<223> Designed chimeric oligonucleotide primer designated as M.Ngo F-2 to amplify a portion of M.NgoMIII gene from Neisseria

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<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as M.Ngo R-2 to amplify a portion of M.NgoMIII gene from Neisseria gonorrhoeae. "Nucleotides 17 to 19 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 55

acgccatgcc cacctgcuu 19

<210> 56

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as M.Ngo R-3 to amplify a portion of M.NgoMIII gene from Neisseria gonorrhoeae. "Nucleotides 16 to 18 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 56

acgccatgcc cacctgcu 18

<210> 57

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as M.Ngo R-4 to amplify a portion of M.NgoMIII gene from Neisseria gonorrhoeae. "Nucleotides 19 to 21 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 57

acgccatgcc caccugc 17

<210> 58

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as Cytosine F-1 to amplify a portion of methyltransferase gene from Neisseria gonorrhoeae. "Nucleotides 18 to 20 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 58

tatttgatcc gccacaccuu 20

<210> 59

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as Cytosine F-2 to amplify a portion of methyltransferase gene from Neisseria gonorrhoeae. "Nucleotides 19 to 21 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 59

tatttgatcc gccacaccuu c 21

<210> 60

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as Cytosine F-3 to amplify a portion of methyltransferase gene from Neisseria gonorrhoeae. "Nucleotides 17 to 19 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 60

tatttgatcc gccacaccu 19

<210> 61

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as Cytosine R-1 to amplify a portion of methyltransferase gene from Neisseria gonorrhoeae. "Nucleotides 18 to 20 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 61

tctagttgac catattgcgc 20

<210> 62

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as Cytosine R-2 to amplify a portion of methyltransferase gene from Neisseria gonorrhoeae. "Nucleotides 19 to 21 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 62

tctagttgac catattgcgc a 21

<210> 63

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as Cytosine R-3 to amplify a portion of methyltransferase gene from Neisseria gonorrhoeae. "Nucleotides 20 to 22 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 63

tctagttgac catattgcgc ac 22

<210> 64

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as NEI-5130 probe to detect a DNA fragment amplifing a portion of pJDB4 plasmid DNA from Neisseria gonorrhoeae.

<400> 64

gatatgccgc acgaattgac 20

<210> 65

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as NEI-CppB probe-1 to detect a DNA fragment amplifing a portion of CppB-encoding sequence from Neisseria gonorrhoeae.

<400> 65

ctcgctagct gctgcgctaa 20

<210> 66

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as NEI-CppB probe-2 to detect a DNA fragment amplifing a portion of CppB-encoding sequence from Neisseria gonorrhoeae.

<400> 66

tccgtaacgt ctctaagtct 20

<210> 67

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as M.Ngo-probe to detect a DNA fragment amplifing a portion of M.NgoMIII gene-encoding sequence from Neisseria gonorrhoeae.

<400> 67

cgaaccgtcc aaaaccatt 19

<210> 68

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as Cytosine-probe to detect a DNA fragment amplifing a portion of methyltransferase-encoding sequence from Neisseria gonorrhoeae.

<400> 68

ctctgggcag gtcagaaatc 20

<210> 69

<211> 560

<212> DNA

<213> Hepatitis B virus

<400> 69

ccttcccatg gctgctcggg tgtgctgcca actggatcct gcgcgggacg tcctttgtct 60

acgtcccgtc ggcgctgaat cccgcggacg acccgtctcg gggccgtttg ggcctctacc 120
gtcccttgct ttctctgccg ttccagccga ccacggggcg cacctctctt tacgcggtct 180
ccccgtctgt gccttctcat ctgccggacc gtgtgcactt cgcttcacct ctgcacgtcg 240
catggagacc accgtgaacg gccaccaggt cttgcccaag ctcttacata agaggactct 300
tggactctca gcaatgtcaa caaccgacct tgaggcatac ttcaaagact gtttgtttaa 360
agactgggag gagttggggg aggagattag gttaaaggtc tttgtactag gaggctgtag 420
gcataaattg gtctgttcac cagcaccatg caacttttc acctctgcct aatcatctca 480
tgttcatgtc ctactgttca agcctccaag ctgtgccttg ggtggctttg gggcatggac 540
attgacccgt ataaagaatt 560

<210> 70
<211> 560
<212> DNA
<213> Hepatitis B virus

<400> 70
ccttcccatg gctgctcggg tgtgctgcca actggatcct gcgcgggacg tcctttgtct 60
acgtcccgtc ggcgctgaat cccgcggacg acccgtctcg gggccgtttg ggcctctacc 120
gtcccttgct ttctctgccg ttccagccga ccacggggcg cacctctctt tacgcggtct 180
ccccgtctgt gccttctcat ctgccggacc gtgtgcactt cgcttcacct ctgcacgtcg 240
catggagacc accgtgaacg gccaccaggt cttgcccaag ctcttacata agaggactct 300
tggactctca gcaatgtcaa caaccgacct tgaggcatac ttcaaagact gtgtgtttaa 360
agactgggag gagttggggg aggagattag gttaaaggtc tttgtactag gaggctgtag 420
gcataaattg gtctgttcac cagcaccatg caacttttc acctctgcct aatcatctca 480
tgttcatgtc ctactgttca agcctccaag ctgtgccttg ggtggctttg gggcatggac 540
attgacccgt ataaagaatt 560

<210> 71
<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HBV-F-1 to amplify a portion of X-protein gene from Hepatitis B virus. "Nucleotides 22 to 24 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 71

gaggactctt ggactctcag caau 24

<210> 72

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HBV-F-2 to amplify a portion of X-protein gene from Hepatitis B virus. "Nucleotides 18 to 20 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 72

ctcttggact ctcagcaaug 20

<210> 73

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HBV-F-3 to amplify a portion of X-protein gene from Hepatitis B virus. "Nucleotides 19 to 21 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 73

gaggcatact tcaaagacug u 21

<210> 74

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HBV-F-5 to amplify a portion of X-protein gene from Hepatitis B virus. "Nucleotides 22 to 24 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 74

tacttcaaag actgtgtgtt taaa 24

<210> 75

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HBV-R-1 to amplify a portion of X-protein gene from Hepatitis B virus. "Nucleotides 20 to 22 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 75

tcctcccagt ctttaaacam ac 22

<210> 76

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HBV-R-2 to amplify a portion of X-protein gene from Hepatitis B virus. "Nucleotides 21 to 23 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 76

ccagtcttta aacamacagt cuu 23

<210> 77

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HBV-R-3 to amplify a portion of X-protein gene from Hepatitis B virus. "Nucleotides 19 to 21 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 77

gcctcctagt acaaagaccu u 21

<210> 78

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HBV-R-4 to amplify a portion of X-protein gene from Hepatitis B virus. "Nucleotides 22 to 24 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 78

ctagtacaaa gacctttaac cuaa 24

<210> 79

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as HBV-probe1 to detect a DNA fragment amplifing a portion of X-protein-encoding sequence from Hepatitis B virus.

<400> 79

caaccgacct tgaggcatac 20

<210> 80

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as HBV-probe2 to detect a DNA fragment amplifing a portion of X-protein-encoding sequence from Hepatitis B virus.

<400> 80

gactgggagg agttggggga 20

<210> 81

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HCV-A2-S to amplify a portion of Hepatitis C virus. "Nucleotides 16 to 18 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 81

ctttcttgga tcaacccg 18

<210> 82

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HCV-A2-A to amplify a portion of Hepatitis C virus. "Nucleotides 18 to 20 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 82

aacactactc ggctagcagu 20

<210> 83

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HCV-A4-S to amplify a portion of Hepatitis C virus. "Nucleotides 15 to 17 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 83

ctttcttgga tcaaccc 17

<210> 84

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HCV-A4-A to amplify a portion of Hepatitis C virus. "Nucleotides 16 to 18 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 84

ccaacactac tcggcuag 18

<210> 85

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HCV-A4-S19 to amplify a portion of Hepatitis C virus. "Nucleotides 17 to 19 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 85

tcctttcttg gatcaaccc 19

<210> 86

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HCV-A4-A19 to amplify a portion of Hepatitis C virus. "Nucleotides 17 to 19 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 86

cccaacacta ctcggcuag 19

<210> 87

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as HCV-C probe to detect a DNA fragment amplifing a Hepatitis C virus.

<400> 87

ctcaatgcct ggagatttgg 20

<210> 88

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HCV-F1 to amplify a portion of Hepatitis C virus. "Nucleotides 17 to 19 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 88

ctagccgagt agtgttggg 19

<210> 89

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HCV-R1 to amplify a portion of Hepatitis C virus. "Nucleotides 16 to 18 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 89

tcgcaagcac cctatcag 18

<210> 90

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HCV-F2 to amplify a portion of Hepatitis C virus. "Nucleotides 16 to 18 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 90

ctagccgagt agtgtugg 18

<210> 91

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HCV-R2 to amplify a portion of Hepatitis C virus. "Nucleotides 17 to 19 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 91

tcgcaagcac cctatcagg 19

<210> 92

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as HCV-D probe to detect a DNA fragment amplifing a Hepatitis C virus.

<400> 92

gcgaaaggcc ttgtggtact 20

<210> 93

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide primer designated as SP6-HIV-F to amplify a portion of gag sequence from HIV.

<400> 93

ccatttaggt gacactatag aataccagag gagctctctc gacg 44

<210> 94

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide primer designated as HIV-R to amplify a portion of gag sequence from HIV.

<400> 94

ccaacagccc tttttcctag 20

<210> 95

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HIV-F1 to amplify a portion of gag sequence from HIV. "Nucleotides 18 to 20 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 95

atgggtgcga gagcgucart 20

<210> 96

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HIV-F2 to amplify a portion of gag sequence from HIV. "Nucleotides 20 to 22 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 96

tagaagaaat gatgacagca ug 22

<210> 97

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HIV-F3 to amplify a portion of gag from sequence HIV. "Nucleotides 20 to 22 are

ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 97

gaagaaatga tgacagcatg uc 22

<210> 98

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HIV-F4 to amplify a portion of gag from sequence HIV. "Nucleotides 20 to 22 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 98

aytagaagaa atgatgacag ca 22

<210> 99

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HIV-R1 to amplify a portion of gag sequence from HIV. "Nucleotides 18 to 20 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 99

ctccctgctt gcccatacua 20

<210> 100

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HIV-R2 to amplify a portion of gag from sequence HIV. "Nucleotides 20 to 22 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 100

cattgcctca gccaaaactc uu 22

<210> 101

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HIV-R3 to amplify a portion of gag sequence from HIV. "Nucleotides 20 to 22 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 101

ctcattgcct cagccaaaac uc 22

<210> 102

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HIV-R4 to amplify a portion of gag sequence from HIV. "Nucleotides 20 to 22 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 102

ttgcttcagc caaaactctu gc 22

<210> 103

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as HIV-R4M to amplify a portion of gag sequence from HIV. "Nucleotides 20 to 22 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 103

ttgcytcagc caaaacyctu gc 22

<210> 104

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as HIV-A probe to detect a DNA fragment amplifing a portion of gag sequence from HIV.

<400> 104

gggaaaatta gatgcatggg a 21

<210> 105

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as HIV-B probe to detect a DNA fragment amplifing a portion of gag sequence from HIV.

<400> 105

ggagtgggag gaccyrgcca 20

<210> 106

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide primer designated as coa-PCR-F to amplify a portion of coagulase gene from Staphylococcus aureus.

<400> 106

ctattttaga aggtcttgaa gg 22

<210> 107

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide primer designated as coa-PCR-R to amplify a portion of coagulase gene from Staphylococcus aureus.

<400> 107

gtattcacgg atacctgtac 20

<210> 108

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as coa-F1 to amplify a portion of coagulase gene from Staphylococcus aureus. "Nucleotides 16 to 18 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 108

caagcaactg aaacaaca 18

<210> 109

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as coa-F2 to amplify a portion of coagulase gene from Staphylococcus aureus. "Nucleotides 17 to 19 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 109

tattgaagtt aaacctcaa 19

<210> 110

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as coa-F3 to amplify a portion of coagulase gene from Staphylococcus aureus. "Nucleotides 18 to 20 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 110

aacttgaaat aaaaccacaa 20

<210> 111

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as coa-F4 to amplify a portion of coagulase gene from Staphylococcus aureus. "Nucleotides 18 to 20 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 111

aaataaaacc acaaggtacu 20

<210> 112

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as coa-F5 to amplify a portion of coagulase gene from Staphylococcus aureus. "Nucleotides 16 to 18 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 112

gtagctcatc taaacuug 18

<210> 113

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as coa-R1 to amplify a portion of coagulase gene from Staphylococcus aureus. "Nucleotides 16 to 18 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 113

gttttgttaa attgcggu 18

<210> 114

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as coa-R2 to amplify a portion of coagulase gene from Staphylococcus aureus. "Nucleotides 16 to 18 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 114

atacttaggt gttttguu 18

<210> 115

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as coa-R3 to amplify a portion of coagulase gene from Staphylococcus aureus. "Nucleotides 18 to 20 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 115

tgtttcagtt gcttgagguu 20

<210> 116

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as coa-R4 to amplify a portion of coagulase gene from Staphylococcus aureus. "Nucleotides 18 to 20 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 116

ttctgttgtt tcagttgcuu 20

<210> 117

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as coa-R5 to amplify a portion of coagulase gene from Staphylococcus aureus. "Nucleotides 16 to 18 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 117

tgttgtttca gttgcuug 18

<210> 118

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as coa-A probe to detect a DNA fragment amplifing a coagulase gene from Staphylococcus aureus.

<400> 118

tcaaggagaa tcaagtgata 20

<210> 119

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as coa-B probe to detect a DNA

fragment amplifing a coagulase gene from Staphylococcus aureus.

<400> 119

agcttctcaa tatggtccg 19

<210> 120

<211> 560

<212> DNA

<213> Chlamydia trachomatis

<400> 120

atgcgttgtt aggtaaagct ctgatatttg aagactctac tgagtatatt ctgaggcagc 60

ttgctaatta tgagtttaag tgttctcatc ataaaaacat attcatagta tttaaatact 120

taaaagacaa tggattacct ataactgtag actcggcttg ggaagagctt ttgcggcgtc 180

gtatcaaaga tatggacaaa tcgtatctcg ggttaatgtt gcatgatgct ttatcaaatg 240

acaagcttag atccgtttct catacggttt tcctcgatga tttgagcgtg tgtagcgctg 300

aagaaaattt gagtaatttc attttccgct cgtttaatga gtacaatgaa aatccattgc 360

gtagatctcc gtttctattg cttgagcgta taaagggaag gcttgacagt gctatagcaa 420

agacttttc tattcgcagc gctagaggcc ggtctattta tgatatattc tcacagtcag 480

aaattggagt gctggctcgt ataaaaaaaa gacgagcaac gttctctgag aatcaaaatt 540

ctttctttga tgccttccca 560

<210> 121

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as CT-FB19 to

amplify a portion of plasmid DNA from Chlamydia trachomatis . "Nucleotides 17 to 19 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 121

tccgtttctc atacgguuu 19

<210> 122

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as CT-FB19-3 to amplify a portion of plasmid DNA from Chlamydia trachomatis . "Nucleotides 20 to 22 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 122

catacggttt tcctcgatga uu 22

<210> 123

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as CT-FB19-3-21 to amplify a portion of plasmid DNA from Chlamydia

trachomatis . "Nucleotides 19 to 21 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 123

catacggttt tcctcgatga u 21

<210> 124

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as CT-FB19-3-23 to amplify a portion of plasmid DNA from Chlamydia trachomatis . "Nucleotides 21 to 23 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 124

catacggttt tcctcgatga uuu 23

<210> 125

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as CT-RB21 to amplify a portion of plasmid DNA from Chlamydia trachomatis . "Nucleotides 19 to 21 are ribonucleotides-other

nucleotides are deoxyribonucleotides."

<400> 125

agaaacggag atctacgcaa u 21

<210> 126

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as CT-RB23-2 to amplify a portion of plasmid DNA from Chlamydia trachomatis . "Nucleotides 21 to 23 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 126

gatctacgca atggattttc auu 23

<210> 127

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as CT-RB23-2-24 to amplify a portion of plasmid DNA from Chlamydia trachomatis . "Nucleotides 22 to 24 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 127

gatctacgca atggattttc auug 24

<210> 128

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as CT-probe to detect a DNA fragment amplifing a portion of plasmid DNA from Chlamydia trachomatis.

<400> 128

tgagcgtgtg tagcgctgaa 20

<210> 129

<211> 560

<212> DNA

<213> Chlamydia trachomatis

<400> 129

gtcctctagt acaaacaccc ccaatattgt gatataatta aaattatatt catattctgt 60

tgccagaaaa aacactttta ggctatatta gagccaatct tctttgaagc gttgtcttct 120

cgagaagatt tatcgtacgc aaatatcatc tttgcggttg cgtgtcctgt gaccttcatt 180

atgtcggagt ctgagcaccc taggcgtttg tactccgtca cagcggttgc tcgaagcacg 240

tgcggggtta tcttaaaagg gattgcagct tgtagtcctg cttgagagaa cgtgcgggcg 300

atttgcctta accccaccat ttttccggag cgagttacga agacaaaacc tcttcgttga 360

ccgatgtact cttgtagaaa gtgcataaac ttctgaggat aagttataat aatcctcttt 420

tctgtctgac ggttcttaag ctgggagaaa gaaatggtag cttgttggaa acaaatctga 480

ctaatctcca agcttaagac ttcagaggag cgtttacctc cttggagcat tgtctgggcg 540

atcaaccaat cccgggcatt 560

<210> 130

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as CT-F1212-20 to amplify a portion of plasmid DNA from Chlamydia trachomatis . "Nucleotides 18 to 20 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 130

gtgtcctgtg accttcauua 20

<210> 131

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as CT-F1212-21 to amplify a portion of plasmid DNA from Chlamydia trachomatis . "Nucleotides 19 to 21 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 131

gtgtcctgtg accttcatua u 21

<210> 132

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as CT-F1212-22 to amplify a portion of plasmid DNA from Chlamydia trachomatis . "Nucleotides 20 to 22 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 132

gtgtcctgtg accttcatta ug 22

<210> 133

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as CT-R1272-20 to amplify a portion of plasmid DNA from Chlamydia trachomatis . "Nucleotides 18 to 20 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 133

tgtgacggag tacaaacgcc 20

<210> 134

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as CT-R1272-21 to amplify a portion of plasmid DNA from Chlamydia trachomatis . "Nucleotides 19 to 21 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 134

tgtgacggag tacaaacgcc u 21

<210> 135

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as CT-R1272-22 to amplify a portion of plasmid DNA from Chlamydia trachomatis . "Nucleotides 20 to 22 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 135

tgtgacggag tacaaacgcc ua 22

<210> 136

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as CT-1234 probe to detect a DNA fragment amplifing a portion of plasmid DNA from Chlamydia trachomatis.

<400> 136

tcggagtctg agcacccta 19

<210> 137

<211> 560

<212> DNA

<213> Mycoplasma pneumoniae

<400> 137

aacagtagct aacactaatc acaaaaatga aagtgataag tttgtgattt ttgaacctca 60

accaccattg agccaaacta tccccaaacc agaggctgaa ccagttatag agcccgatgc 120

tgttgctaca ccacctgtgc agaatgccga ggtgcaaatt aagcctgaca gctccaaggg 180

tgtttacagt cctggtttta agttcaacac taactttatt cctaaagtaa atactaagta 240

tcggccgggc tatgatctta gctttgcctt aaagtttggt actagttgaa aagaagctta 300

tggtacaggt tggttaattg actggaagga tgttaagcag gacaacaaat ttactgctta 360

cttagctacc aacctccatg tagctgatag cttacgaaat aaagacgatt acaagcctta 420

caacaaggat ggtaatcaga aggagttttt acctggcgat atcaccactg aattttcttt 480

gggtaaatac attgatgccc aaactgtgca aaagttaact ccagagtacc aaaatcttaa 540

gcacctcaat aaccggaata 560

<210> 138

<211> 560

<212> DNA

<213> Mycoplasma pneumoniae

<400> 138

gcacctcaat aaccggaata gtgatgcatt agtttcaatt caaacatcga agttaccaaa 60

aactgcttac actgccactg actttatcaa aactgctcag tacaaataca atcacatagt 120

gagtaacaca gtttatgagt tggacttatt ccaaaatgcc gtaagttacg ctgactttgc 180

ggtgttggaa ttagagttaa atttagccaa caatcgtgac cagcaaatct ttgacagttt 240

tataaatcca gcggtaactg cttacgaaaa gctaggtaac agtttgggtc tcttttccaa 300

cctgcaatta gatcagtatg ttgatgatac ccattatcta ttgggttatc cgttacttaa 360

acgtgaaaag acgtcttact gaaacttacc acagaagggt tatagttcac cactctatga 420

aaatagtaat aaggaagttt cgcgcataac gcgtaacatc cggaaagatg atgaaattcc 480

aggtagtcgt ttggtacaaa atcaaattaa ctatttaccc tttgcacaaa atgaccctaa 540

aggcgtaatg gactttagca 560

<210> 139

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as Myco-140 to amplify a portion of ATPase operon from Mycoplasma pneumoniae. "Nucleotides 19 to 21 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 139

attgagccaa actatcccca a 21

<210> 140

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as Myco-140-22 to amplify a portion of ATPase operon from Mycoplasma pneumoniae. "Nucleotides 20 to 22 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 140

attgagccaa actatcccca aa 22

<210> 141

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as Myco-706 to amplify a portion of ATPase operon from Mycoplasma pneumoniae. "Nucleotides 20 to 22 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 141

atcaaaactg ctcagtacaa au 22

<210> 142

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as MPF-910 to amplify a portion of ATPase operon from Mycoplasma pneumoniae. "Nucleotides 20 to 22 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 142

ctcttttcca acctgcaatu ag 22

<210> 143

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as Myco-190 to amplify a portion of ATPase operon from Mycoplasma pneumoniae. "Nucleotides 19 to 21 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 143

gtagcaacag catcgggcuc u 21

<210> 144

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as Myco-190-22 to amplify a portion of ATPase operon from Mycoplasma pneumoniae. "Nucleotides 20 to 22 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 144

gtagcaacag catcgggcuc ua 22

<210> 145

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as Myco-850 to amplify a portion of ATPase operon from Mycoplasma pneumoniae. "Nucleotides 20 to 22 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 145

cgtaacttac ggcattttgg aa 22

<210> 146

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as MPR-1016 to amplify a portion of ATPase operon from Mycoplasma pneumoniae. "Nucleotides 20 to 22 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 146

ttctgtggta agtttcagta ag 22

<210> 147

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as Myco170-probe to detect a DNA fragment amplifing a portion of ATPase operon from Mycoplasma pneumoniae.

<400> 147

ccagaggctg aaccagtta 19

<210> 148

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as Myco730-probe to detect a DNA fragment amplifing a portion of ATPase operon from Mycoplasma pneumoniae.

<400> 148

caatcacata gtgagtaaca 20

<210> 149

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as Myco952-probe to detect a DNA fragment amplifing a portion of ATPase operon from Mycoplasma pneumoniae.

<400> 149

cattatctat tgggttatcc 20

<210> 150

<211> 560

<212> DNA

<213> Staphylococcus aureus

<400> 150

caggatcgta aaataaaaaa agtatctaaa aataaaaaac gagtagatgc tcaatataaa 60

attaaaacaa actacggtaa cattgatcgc aacgttcaat ttaattttgt taaagaagat 120

ggtatgtgga agttagattg ggatcatagc gtcattattc caggaatgca gaaagaccaa 180
agcatacata ttgaaaattt aaaatcagaa cgtggtaaaa ttttagaccg aaacaatgtg 240
gaattggcca atacaggaac acatatgaga ttaggcatcg ttccaaagaa tgtatctaaa 300
aaagattata aagcaatcgc taaagaacta agtatttctg aagactatat caacaacaaa 360
tggatcaaaa ttgggtacaa gatgatacct tcgttccact ttaaaaccgt taaaaaaatg 420
gatgaatatt taagtgattt cgcaaaaaaa tttcatctta caactaatga aacagaaagt 480
cgtaactatc ctctagaaaa agcgacttca catctattag gttatgttgg tcccattaac 540
tctgaagaat taaaacaaaa 560

<210> 151
<211> 560
<212> DNA
<213> Staphylococcus aureus

<400> 151
aaaaatgatt atggctcagg tactgctatc caccctcaaa caggtgaatt attagcactt 60
gtaagcacac cttcatatga cgtctatcca tttatgtatg gcatgagtaa cgaagaatat 120
aataaattaa ccgaagataa aaaagaacct ctgctcaaca agttccagat tacaacttca 180
ccaggttcaa ctcaaaaaat attaacagca atgattgggt taaataacaa aacattagac 240
gataaaacaa gttataaaat cgatggtaaa ggttggcaaa aagataaatc ttggggtggt 300
tacaacgtta caagatatga agtggtaaat ggtaatatcg acttaaaaca agcaatagaa 360
tcatcagata acattttctt tgctagagta gcactcgaat taggcagtaa gaaatttgaa 420
aaaggcatga aaaaactagg tgttggtgaa gatataccaa gtgattatcc attttataat 480
gctcaaattt caaacaaaaa tttagataat gaaatattat tagctgattc aggttacgga 540
caaggtgaaa tactgattaa 560

<210> 152
<211> 23
<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as MecA-S525 to amplify a portion of MecA gene from Staphylococcus aureus. "Nucleotides 21 to 23 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 152

aaagaatgta tctaaaaaag auu 23

<210> 153

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as MecA-A611 to amplify a portion of MecA gene from Staphylococcus aureus. "Nucleotides 18 to 20 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 153

aggtatcatc ttgtacccaa 20

<210> 154

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as MecA-S1281 to amplify a portion of MecA gene from Staphylococcus aureus. "Nucleotides 21 to 23 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 154

cgatggtaaa ggttggcaaa aag 23

<210> 155

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as MecA-A1341 to amplify a portion of MecA gene from Staphylococcus aureus. "Nucleotides 21 to 23 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 155

agtcgatatt accatttacc acu 23

<210> 156

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as MecA-A probe to detect a DNA fragment amplifing a portion of MecA gene from Staphylococcus aureus.

<400> 156

gcaatcgcta aagaactaag 20

<210> 157

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as MecA-B probe to detect a DNA fragment amplifing a portion of MecA gene from Staphylococcus aureus.

<400> 157

ttggggtggt tacaacgtta 20

<210> 158

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as pDON-AI-1(22) to amplify a portion of pDON-AI plasmid DNA. "Nucleotides 20 to 22 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 158

actagctctg tatctggcgg ac 22

<210> 159

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as pDON-AI-2(23) to amplify a portion of pDON-AI plasmid DNA. "Nucleotides 21 to 23 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 159

acgatcggga tttttggact cag 23

<210> 160

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide primer to amplify a portion of iNOS-encoding sequence from mouse.

<400> 160

atgccattga gttcatcaac 20

<210> 161

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide primer to amplify a portion of iNOS-encoding sequence from mouse

<400> 161

tcttggtggc aaagatgag 19

<210> 162

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as MTIS 2F to amplify a portion of Mycobacterium tuberculosis. "Nucleotides 16 to 18 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 162

tctcgtccag cgccgcuu 18

<210> 163

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as MTIS 2R to amplify a portion of Mycobacterium tuberculosis. "Nucleotides 19 to 21 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 163

gacaaaggcc acgtaggcga a 21

<210> 164

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as pJDB 10F to amplify a portion of CppB gene from Neisseria gonorrhoeae. "Nucleotides 18 to 20 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 164

atgcctcgtt gatatttuuc 20

<210> 165

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as pJDB 10R to

amplify a portion of CppB gene from Neisseria gonorrhoeae. "Nucleotides 15 to 17 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 165

cgaagccgcc agcauag 17

<210> 166

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as CT-F1215-4R-22 to amplify a portion of plasmid DNA from Chlamydia trachomatis. "Nucleotides 19 to 22 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 166

tcctgtgacc ttcattatgu cg 22

<210> 167

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as CT-R1267-3R-18 to amplify a portion of plasmid DNA from Chlamydia

trachomatis. "Nucleotides 16 to 18 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 167

cggagtacaa acgccuag 18

<210> 168

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe as CT-1236 probe to detect a DNA fragment amplifing a portion of plasmid DNA from Chlamydia trachomatis.

<400> 168

ggagtctgag caccc 15

<210> 169

<211> 169

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed nucleotide as Internal Control for Mycobacterium tuberculosis assay.

<400> 169

ccacgatcgc tgatccggcc acagcccgtc ccgccgatct cgtccagcgc cgcttcggac 60

caccagcacc taaccggctg tgggtagcac ctccgatcgt tgtcagaagc tgggcagggt 120

tcgcctacgt ggcctttgtc accgacgcct acgctcgcag gatcctggg 169

<210> 170

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as MTIS2F16 to amplify a portion of Mycobacterium tuberculosis DNA. "nucleotides 14 to 16 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 170

tcgtccagcg ccgcuu 16

<210> 171

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as MTIS2RAAC to amplify a portion of Mycobacterium tuberculosis DNA. "nucleotides 18 to 20 are ribonucleotides-other nucleotides are deoxyribonucleotides."

<400> 171

caaaggccac gtaggcgaac 20

<210> 172

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe designated as MTIS-S-PROBE to detect a DNA fragment amplifying a portion of nucleotide sequence from Mycobacterium tuberculosis.

<400> 172

gacctcacct atgtgtcgac 20

<210> 173

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide probe designated as INTER-PROBE to detect a DNA fragment amplifying a portion of nucleotide sequence from Mycobacterium tuberculosis.

<400> 173

cctccgatcg ttgtcagaag 20