

SEQUENCE LISTING

<110> Denka Company Limited
 Toho University

<120> METHOD AND KIT FOR IDENTIFYING BACTERIUM CAUSING SEPTICEMIA

<130> PU006651W001

<150> JP 2021-049799
 <151> 2021-03-24

<160> 163

<170> PatentIn version 3.5

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tg 182

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taaactcttg agtgaacaat ttatttcaga ctcaattttg ccaatctggt aatgagttaa 180
tgtgtcttcg tcagatca 198

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 atcagtgaag tattggaatt accaaattta attgaa 96

<210> 60
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taacgtggcg atgaataagc 20

<210> 77
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 <210> 82
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 gaayaagctg attgcccatac 20

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cgcaagttcc tgatagactg 20

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gctatatttga tgaagctcaa ac 22

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cttaaattgtt gatgcaggga c 21

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 aataagcagc aaggatttac c 21

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 <400> 91
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 <400> 93
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 <223> Forward Primer(vanA_808F18)

 <400> 96
 ggacggatac aggaaacg 18

 <210> 97
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Reverse Primer(vanA_900R22)

 <400> 97
 attgacttcg ttcagtacaa tg 22

 <210> 98
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward Primer(vanB_264F19)

 <400> 98
 gcgtattgat gtggctttc 19

<210> 99
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Reverse Primer(vanB_355R20)

 <400> 99
 ctttgaatat cacagcccac 20

<210> 100
 <211> 230
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Partial sequence of Klebsiella pneumoniae Beta-Lactamase_KPC gene

 <400> 100
 ggcgttatca ctgtattgca cggcggccgc ggacagctcc gccaccgtca tgcctgttgt 60
 cagatatttt tccgagatgg gtgaccacgg aaccagcgca tttttgccgt aacggatggg 120
 tgtgtccagc aagccggcct gctgctggct gcgagccagc acagcggcag caagaaagcc 180
 cttgaatgag ctgcacagtg ggaagcgctc ctcagcgcgg taacttacag 230

<210> 101
 <211> 250
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Partial sequence of Klebsiella pneumoniae Beta-Lactamase_KDM gene

 <400> 101
 cattggcata agtcgcaatc cccgccgcat gcagcgcggt cataccgccc atcttgtcct 60
 gatgcgcgtg agtcaccacc gccagcgcga ccggcagggt gatctcctgc ttgatccagt 120
 tgaggatctg ggcggtctgg tcatcggtcc aggcggtatc gaccaccagc acgcggccgc 180
 catccctgac gatcaaaccg ttggaagcga ctgccccgaa acccggcgatg tcgagatagg 240
 aagtgtgctg 250

<210> 102

<211> 191
<212> DNA
<213> Artificial Sequence

<220>

<223> Partial sequence of Pseudomonas aeruginosa Beta-Lactamase_IMP85 gene

<400> 102
agccaaacca ctacgttatc tggagtgtgc cctggaccag gataaaaaac ttcaatcttt 60
ttcttaacta gccaatagct agctccgcta aatgaatttt tagcttgtagc tttaccgtct 120
ttttaagaa gttcatttgt taattcagat gcatacgtgg ggatagattg agaattaagc 180
cactctattc c 191

<210> 103
<211> 109
<212> DNA
<213> Artificial Sequence

<220>

<223> Partial sequence of Citrobacter freundii Beta-Lactamase_VIM gene

<400> 103
ccccacgctg tatcaatcaa aagcaactca tcaccatcac ggacaatgag accattggac 60
gggtagaccg cgccatcaaa cgactgcgtt gcgatatgcg accaaacac 109

<210> 104
<211> 249
<212> DNA
<213> Artificial Sequence

<220>

<223> Partial sequence of Salmonella enterica Beta-Lactamase_CTX-M1 gene

<400> 104
ttgcctttca tccatgtcac cagctgcgcc cgttggctgt cacccaatgc tttaccagc 60
gtcagattac gcagagtttg cgccattgcc cgaggtgaag tggtatcacg cggatcgccc 120
ggaatggcgg tgtttaacgt cggctcggtg cggtcgagac ggaacgtttc gtctcccagc 180
tgtcgggcga acgcggtgac gctagccggg ccgccaacgt gagaaatcag cttattcatc 240
gccacgtta 249

<210> 105
<211> 237
<212> DNA
<213> Artificial Sequence

<220>

<223> Partial sequence of Salmonella enterica Beta-Lactamase_CTX-M2 gene

<400> 105
ttgcccttaa gccacgtcac caactgtgcc cgctgagttt ccgccagcgc tttaccacgc 60
gtcagatttt tcaggggtctg cgccatcgcg agcggcggtg tggtatcacg cgggtcgcct 120
ggaatggcgg tattgagcgt gggctcggtt ctgtccagac ggaaggtctc atcacccaac 180
gagcgagcaa acgccgtcac tttatcgggg ccaccagat gggcaatcag cttattc 237

<210> 106
<211> 72
<212> DNA
<213> Artificial Sequence

<220>

<223> Partial sequence of Citrobacter amalonatics Beta-Lactamase_CTX-M8 gene

<400> 106
gtgttatccc caatcgcacg ggcaaacgcc gtcactttat ccggcccccc aagatgggca 60
atcagcttgc tc 72

<210> 107
<211> 72
<212> DNA
<213> Artificial Sequence

<220>

<223> Partial sequence of Escherichia coli Beta-Lactamase_CTX-M25 gene

<400> 107
gtgtcatcgc caatcgtacg ggcaaatgcc gtcactttat ccggcccccc gagatgggca 60
atcagcttat tc 72

<210> 108
<211> 140
<212> DNA
<213> Artificial Sequence

<220>
 <223> Partial sequence of *Escherichia coli* Beta-Lactamase_CTX-M9 gene

<400> 108
 gggcaatcaa tttgttcatg gcggtattgt cgctgtactg caacgcggcc gcgctcagct 60
 ctgccagcgt cattgtgccg ttgacgtggt tttcggcaat cggattgtag ttaaccagat 120
 cggcaggctt gatctcgaca 140

<210> 109
 <211> 144
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Partial sequence of *Acinetobacter baumannii* Beta-Lactamase_OXA-23 gene

<400> 109
 cgcaagttcc tgatagactg ggactgcaga aagcttcatg gcttctccta gtgtcatgtc 60
 tttttcccaa gcggtaaatg accttttctc gcccttccat ttaaataattt cattaatatc 120
 cgttttctgg ttctccaatc cgat 144

<210> 110
 <211> 122
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Partial sequence of *Acinetobacter baumannii* Beta-Lactamase_OXA-40 gene

<400> 110
 cttaaagtgt gatgcaggga catattcttt atttgctcgt gcaagagcat taccataggt 60
 gctaagattt ttaccctctt taataataat tacaccctgt gtttgagctt catcaaaata 120
 gc 122

<210> 111
 <211> 123
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Partial sequence of *Klebsiella pneumoniae* Beta-Lactamase_OXA-48 gene

<400> 111
 gtgttcatcc ttaaccacgc ccaaatcgag ggcatcaag ctattgggaa ttttaaaggt 60
 agatgcgggt aaaaatgctt ggttcgcccg ttttaagatta ttggtaaatc cttgctgctt 120
 att 123

<210> 112
 <211> 117
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Partial sequence of *Acinetobacter haemolyticus*
 Beta-Lactamase_OXA-58 gene

<400> 112
 cgctctacat acaacatctc tttcacttgt tgctgaactt caggtttaaa aggcaattgc 60
 ccttgggcta aatcatacac aaactttact tcttgatatag gtgtaattgt caaaggc 117

<210> 113
 <211> 132
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Partial sequence of *Staphylococcus aureus mecA* gene

<400> 113
 gatagccatc ttcattgttg agctttttat cgtaaagttt ttcgagtccc tttttaccaa 60
 taactgcatc atctttatag cttttatatt ctttttgttt taattcttca gagttaatgg 120
 gaccaacata ac 132

<210> 114
 <211> 114
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Partial sequence of *Enterococcus faecalis vanA* gene

<400> 114
 attgacttcg ttcagtacaa tgcggccggt atcttgtaaa aacatatcca cacgggctag 60
 acctctacag ccgagcgctt tatatatattt ttttgccggt tcctgtatcc gtcc 114

<210> 115
 <211> 111
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Partial sequence of Enterococcus faecium vanB gene

 <400> 115
 ctttgaatat cacagcccac ataggggata ccagacaata caaacagccc ctgtatcgca 60
 ccatcctccc cgcatttgcc atgcaaaacc gggaaagcca catcaatagc c 111

 <210> 116
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> A.spp_P1 (rpoB)

 <400> 116
 tttttttttt ttcgcggttt tttgg 25

 <210> 117
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> A.spp_172P17

 <400> 117
 ttttttttat aggaaaaact gaacg 25

 <210> 118
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> A.bau_P19

 <400> 118
 ttttttgaat ttagattgaa gctgt 25

 <210> 119
 <211> 25

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> C. spp_24P17R

 <400> 119
 ttttttttga aacggtarga aacac 25

 <210> 120
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Enb.spp_349P17

 <400> 120
 ttttttttct ggatctgatt gaaga 25

 <210> 121
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> E.coli_531P16

 <400> 121
 tttttttttc aatgtgaccg agttc 25

 <210> 122
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> K.aer_2034P17

 <400> 122
 ttttttttgg tgatgaactc gttat 25

 <210> 123
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> K.oxy_392P17R

<400> 123
ttttttttgc rctgtatttg atagt 25

<210> 124
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> K.pne_P16

<400> 124
tttttttttg aactgcagca ttttg 25

<210> 125
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> K.var_1968P16

<400> 125
tttttttttg ttgcagcagt ttgag 25

<210> 126
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Pse.aer_430P15

<400> 126
tttttttttt ggtaaagagc gtccg 25

<210> 127
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Pro.spp_P16

<400> 127
tttttttttt agaaacgcct taccg 25

<210> 128
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Ser.mar_424P14

 <400> 128
 tttttttttt tatgtccggc gatac 25

 <210> 129
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Enc.spp_3607P14

 <400> 129
 tttttttttt tcttctacgt tcgcg 25

 <210> 130
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Enc.spp_3606P15

 <400> 130
 tttttttttt gcttctacgt tctcg 25

 <210> 131
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Enc.spp_Probe A

 <400> 131
 ttttttttga tgctttccgt atttt 25

 <210> 132
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> L.spp_533P16_1

 <400> 132
 tttttttttg tagtagtcga agctg 25

 <210> 133
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> L.spp_533P17_2

 <400> 133
 ttttttttgt agtagttgaa gctgg 25

 <210> 134
 <211> 25
 <212> DNA
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 <220>
 <223> Sta.aur_625P21

 <400> 134
 ttttccctat aagtaatatt gaaac 25

 <210> 135
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 <212> DNA
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 <220>
 <223> Sta.arg_288P17

 <400> 135
 ttttttttca tttttttcaa cgcct 25

 <210> 136
 <211> 25
 <212> DNA
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 <220>
 <223> Sta.epi_505P20

 <400> 136
 tttttgatgc tgtaaagact ggtaa 25

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<400>	137	
tttttttttta	accattcatg atgcc	25
<210>	138	
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<223>	Str.pneu_440P17	
<400>	138	
tttttttttgc	taattgctta gaagc	25
<210>	139	
<211>	25	
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<223>	Str.pyo_1783P17	
<400>	139	
tttttttttca	tcaactttgg gaaac	25
<210>	140	
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<223>	Str.spp_Probe B	
<400>	140	
ttttttttttt	tttgccacag tgacg	25
<210>	141	
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<213> Artificial Sequence

<220>

<223> NDM_365P16

<400> 141

ttttttttta tcaggacaag atggg

25

<210> 142

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> KPC_330P18

<400> 142

tttttttata tctgacaaca ggcat

25

<210> 143

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> VIM_232P17

<400> 143

tttttttttga tgagttgctt ttgat

25

<210> 144

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> IMP_378P16K

<400> 144

ttttttttta gacggtaagg tkcaa

25

<210> 145

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> OXA23_373P15

<400> 145
tttttttttt ctttctgcag tccca 25

<210> 146
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> OXA40_217P19

<400> 146
ttttttgcaa ataaagaata tgtcc 25

<210> 147
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> OXA48_223P16

<400> 147
tttttttttc ccaatagctt gatcg 25

<210> 148
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> OXA58_596P16

<400> 148
tttttttttt tcagcaacaa gtgaa 25

<210> 149
<211> 25
<212> DNA
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<220>
<223> CTX-M1_594P15

<400> 149
tttttttttt gggtaaagca ttggg 25

<210> 150

<211> 25
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 <220>
 <223> CTX-M2_465P14

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 <210> 151
 <211> 25
 <212> DNA
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 <220>
 <223> CTX-M8_485P20

 <400> 151
 tttttttata aagtgacggc gtttg 25

 <210> 152
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> CTX-M9_393P16

 <400> 152
 tttttttttg tacagcgaca atacc 25

 <210> 153
 <211> 25
 <212> DNA
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 <220>
 <223> CTX-M25_485P20

 <400> 153
 tttttttata aagtgacggc atttg 25

 <210> 154
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 <212> DNA
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<223> mecA_822P17

<400> 154
 ttttttttga tgatgcagtt attgg 25

<210> 155
 <211> 25
 <212> DNA
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<220>
 <223> vanA_867P16

<400> 155
 tttttttttc cgtgtggata tgttt 25

<210> 156
 <211> 25
 <212> DNA
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<220>
 <223> vanB_331P18

<400> 156
 tttttttttt gtattgtctg gtatc 25

<210> 157
 <211> 17
 <212> DNA
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<220>
 <223> Forward Primer (E.coli_1969F17)

<400> 157
 caaaacctgt tcgagcc 17

<210> 158
 <211> 18
 <212> DNA
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<220>
 <223> Reverse Primer (E.coli_2093R18)

<400> 158
 cttcttccag caagccac 18

<210> 159
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> E.coli_526P15

 <400> 159
 tttttttttt ttcaccaatg tgacc 25

 <210> 160
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward Primer (C. spp_568F18)

 <400> 160
 tcygatagcc agccgatg 18

 <210> 161
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Reverse Primer (C. spp(3)_670R18)

 <400> 161
 cattgcgtgg gtcagttt 18

 <210> 162
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> C. spp_55P15Y

 <400> 162
 tttttttttt ccgttatcyg gacga 25

 <210> 163
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>

<223> C. spp_65P19R

<400> 163

ttttttgacg accrccaacg gtgtt

25