

Fig. 1

Klebsiella variicola strain DSM 15968	1	TTCCGAAAGCGATGCTGAAAGAGCTTATCTATCAGCCGACCCCTGACCCAGGCCCAGTCTGGCTGACGAGCAGAAGTTAACCCGCTGGGTGAAACACCCCTGG	100
Klebsiella variicola strain MGH 20	1	TTCCGAAAGCGATGCTGAAAGAGCTTATCTATCAGCCGACCCCTGACCCAGGCCCAGTCTGGCTGACGAGCAGAAGTTAACCCGCTGGGTGAAACACCCCTGG	100
Klebsiella variicola strain X39	1	TTCCGAAAGCGATGCTGAAAGAGCTTATCTATCAGCCGACCCCTGACCCAGGCCCAGTCTGGCTGACGAGCAGAAGTTAACCCGCTGGGTGAAACACCCCTGG	100
Klebsiella pneumoniae NU-CRE047	1	TTCCGAAAGCGCTGCTGAAAGAGCTTATCTATCAGCCGACCCCTGACCCAGGCCCAGTCTGGCTGACGAGCAGAAGTTAACCCGCTGGGTGAAACACCCCTGG	100
Klebsiella pneumoniae strain CHS105	1	TTCCGAAAGCGCTGCTGAAAGAGCTTATCTATCAGCCGACCCCTGACCCAGGCCCAGTCTGGCTGACGAGCAGAAGTTAACCCGCTGGGTGAAACACCCCTGG	100
Klebsiella pneumoniae strain KPNIH33	1	TTCCGAAAGCGCTGCTGAAAGAGCTTATCTATCAGCCGACCCCTGACCCAGGCCCAGTCTGGCTGACGAGCAGAAGTTAACCCGCTGGGTGAAACACCCCTGG	100
Klebsiella variicola strain DSM 15968	101	TTTCCGAGCTGAATGAGAAGAGCAGCAGCGCAGCCAGTGGAAATTTGATGTCCGCGAGAACAGTGAATTCGACGAGTTTGAGCCGATTTATCCGCGTCCG	200
Klebsiella variicola strain MGH 20	101	TTTCCGAGCTGAATGAGAAGAGCAGCAGCGCAGCCAGTGGAAATTTGATGTCCGCGAGAACAGTGAATTCGACGAGTTTGAGCCGATTTATCCGCGTCCG	200
Klebsiella variicola strain X39	101	TTTCCGAGCTGAATGAGAAGAGCAGCAGCGCAGCCAGTGGAAATTTGATGTCCGCGAGAACAGTGAATTCGACGAGTTTGAGCCGATTTATCCGCGTCCG	200
Klebsiella pneumoniae NU-CRE047	101	TCTCCGAGCTGAACGAGAAGAACAGCAGCGCAGCCAGTGGAAATTCGATCTCCACGAGAACAAAGAACTGCAGCATTTTGAGCCGGTTATTCGCGTACG	200
Klebsiella pneumoniae strain CHS105	101	TCTCCGAGCTGAACGAGAAGAACAGCAGCGCAGCCAGTGGAAATTCGATCTCCACGAGAACAAAGAACTGCAGCATTTTGAGCCGGTTATTCGCGTACG	200
Klebsiella pneumoniae strain KPNIH33	101	TCTCCGAGCTGAACGAGAAGAACAGCAGCGCAGCCAGTGGAAATTCGATCTCCACGAGAACAAAGAACTGCAGCATTTTGAGCCGGTTATTCGCGTACG	200
Klebsiella variicola strain DSM 15968	201	TACCCACGGGTGGATACCGACTATCCGCTGGATAACGAGTTTCATCATGGGGCCGGAATATCGCCGTATCTGCACTGGCGGAGAAACTGCGCGGCTG	300
Klebsiella variicola strain MGH 20	201	TACCCACGGGTGGATACCGACTATCCGCTGGATAACGAGTTTCATCATGGGGCCGGAATATCGCCGTATCTGCACTGGCGGAGAAACTGCGCGGCTG	300
Klebsiella variicola strain X39	201	TACCCACGGGTGGATACCGACTATCCGCTGGATAACGAGTTTCATCATGGGGCCGGAATATCGCCGTATCTGCACTGGCGGAGAAACTGCGCGGCTG	300
Klebsiella pneumoniae NU-CRE047	201	TACCCACGGGTGGATACCGACTATCCGCTGGATAACGAGTTTCATCATGGGGCCGGAATATCGCCGTATCTGCACTGGCGGAGAAACTGCGCGGCTG	300
Klebsiella pneumoniae strain CHS105	201	TACCCACGGGTGGATACCGACTATCCGCTGGATAACGAGTTTCATCATGGGGCCGGAATATCGCCGTATCTGCACTGGCGGAGAAACTGCGCGGCTG	300
Klebsiella pneumoniae strain KPNIH33	201	TACCCACGGGTGGATACCGACTATCCGCTGGATAACGAGTTTCATCATGGGGCCGGAATATCGCCGTATCTGCACTGGCGGAGAAACTGCGCGGCTG	300
Klebsiella variicola strain DSM 15968	301	ATGGAAGAAGATGCCCTACATCTGAGCGCGGGGAAACGCCCTCAGCCGTTAGCCAGTTCGACAGGCTCTCGACTGGCTGGTGAAGAGTCCCGTCGCGGTC	400
Klebsiella variicola strain MGH 20	301	ATGGAAGAAGATGCCCTACATCTGAGCGCGGGGAAACGCCCTCAGCCGTTAGCCAGTTCGACAGGCTCTCGACTGGCTGGTGAAGAGTCCCGTCGCGGTC	400
Klebsiella variicola strain X39	301	ATGGAAGAAGATGCCCTACATCTGAGCGCGGGGAAACGCCCTCAGCCGTTAGCCAGTTCGACAGGCTCTCGACTGGCTGGTGAAGAGTCCCGTCGCGGTC	400
Klebsiella pneumoniae NU-CRE047	301	ATGGAAGAAGATGCCCTACATCTGAGCGCGGGGAAACGCCCTCAGCCGTTAGCCAGTTCGACAGGCTCTCGACTGGCTGGTGAAGAGTCCCGTCGCGGTC	400
Klebsiella pneumoniae strain CHS105	301	ATGGAAGAAGATGCCCTACATCTGAGCGCGGGGAAACGCCCTCAGCCGTTAGCCAGTTCGACAGGCTCTCGACTGGCTGGTGAAGAGTCCCGTCGCGGTC	400
Klebsiella pneumoniae strain KPNIH33	301	ATGGAAGAAGATGCCCTACATCTGAGCGCGGGGAAACGCCCTCAGCCGTTAGCCAGTTCGACAGGCTCTCGACTGGCTGGTGAAGAGTCCCGTCGCGGTC	400
Klebsiella variicola strain DSM 15968	401	TCTCCATCCAGCGCTATAAAGTCTGGCCGAGATGAACCCGGATCAGCTGTGGGAAACACCATGTGATCCGGACAGCCCGCCCATGCTGGCGGTAACCGT	500
Klebsiella variicola strain MGH 20	401	TCTCCATCCAGCGCTATAAAGTCTGGCCGAGATGAACCCGGATCAGCTGTGGGAAACCCCATGTGATCCGGACAGCCCGCCCATGCTGGCGTAAACCGT	500
Klebsiella variicola strain X39	401	TCTCCATCCAGCGCTATAAAGTCTGGCCGAGATGAACCCGGATCAGCTGTGGGAAACCCCATGTGATCCGGACAGCCCGCCCATGCTGGCGTAAACCGT	500
Klebsiella pneumoniae NU-CRE047	401	TCTCCATCCAGCGCTATAAAGTCTGGCCGAGATGAACCCGGATCAGCTGTGGGAAACCCCATGTGATCCGGACAGCCCGCCCATGCTGGCGTGAACCGT	500
Klebsiella pneumoniae strain CHS105	401	TCTCCATCCAGCGCTATAAAGTCTGGCCGAGATGAACCCGGATCAGCTGTGGGAAACCCCATGTGATCCGGACAGCCCGCCCATGCTGGCGTGAACCGT	500
Klebsiella pneumoniae strain KPNIH33	401	TCTCCATCCAGCGCTATAAAGTCTGGCCGAGATGAACCCGGATCAGCTGTGGGAAACCCCATGTGATCCGGACAGCCCGCCCATGCTGGCGTGAACCGT	500
Klebsiella variicola strain DSM 15968	501	TAAGGATGGATCGCTGCCAGCAGCTGTTTCAACACCCCTGATGGCGGATGCCGTTGAGCCGCTCGCGCTTTATCGAAGAGAACGCCCTGAAAGCGGCG	600
Klebsiella variicola strain MGH 20	501	TAAGGATGGATCGCTGCCAGCAGCTGTTTCAACACCCCTGATGGCGGATGCCGTTGAGCCGCTCGCGCTTTATCGAAGAGAACGCCCTGAAAGCGGCG	600
Klebsiella variicola strain X39	501	TAAGGATGGATCGCTGCCAGCAGCTGTTTCAACACCCCTGATGGCGGATGCCGTTGAGCCGCTCGCGCTTTATCGAAGAGAACGCCCTGAAAGCGGCG	600
Klebsiella pneumoniae NU-CRE047	501	CAAGGATGCATCGCTGCCAGTCACTGTTTCAACACCCCTGATGGCGGATGCCGTTGAGCCGCTCGCGCTTTATCGAAGAGAACGCCCTGAAAGCGGCG	600
Klebsiella pneumoniae strain CHS105	501	CAAGGATGCATCGCTGCCAGTCACTGTTTCAACACCCCTGATGGCGGATGCCGTTGAGCCGCTCGCGCTTTATCGAAGAGAACGCCCTGAAAGCGGCG	600
Klebsiella pneumoniae strain KPNIH33	501	CAAGGATGCATCGCTGCCAGTCACTGTTTCAACACCCCTGATGGCGGATGCCGTTGAGCCGCTCGCGCTTTATCGAAGAGAACGCCCTGAAAGCGGCG	600

Fig. 2

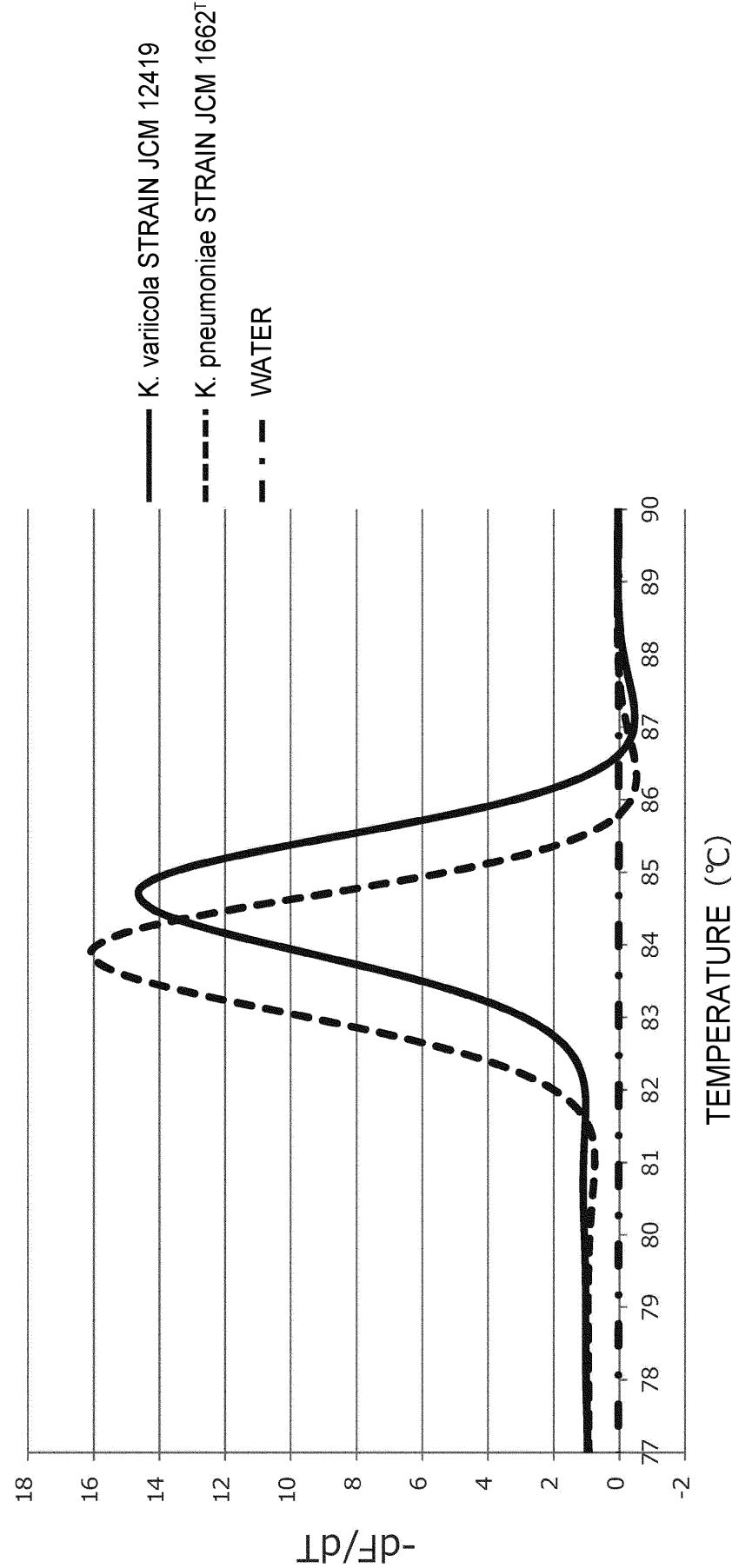


Fig. 3

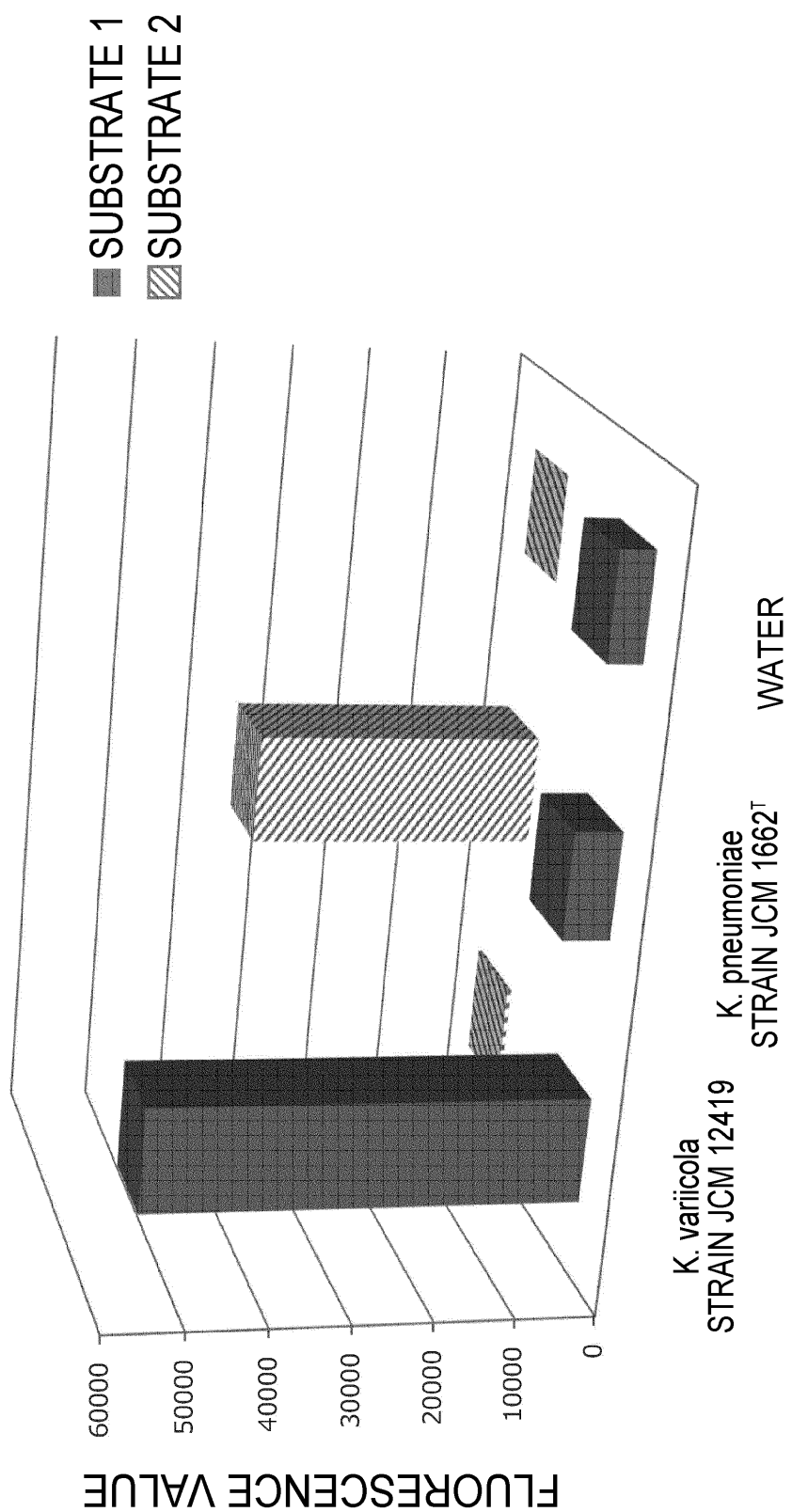


Fig. 4

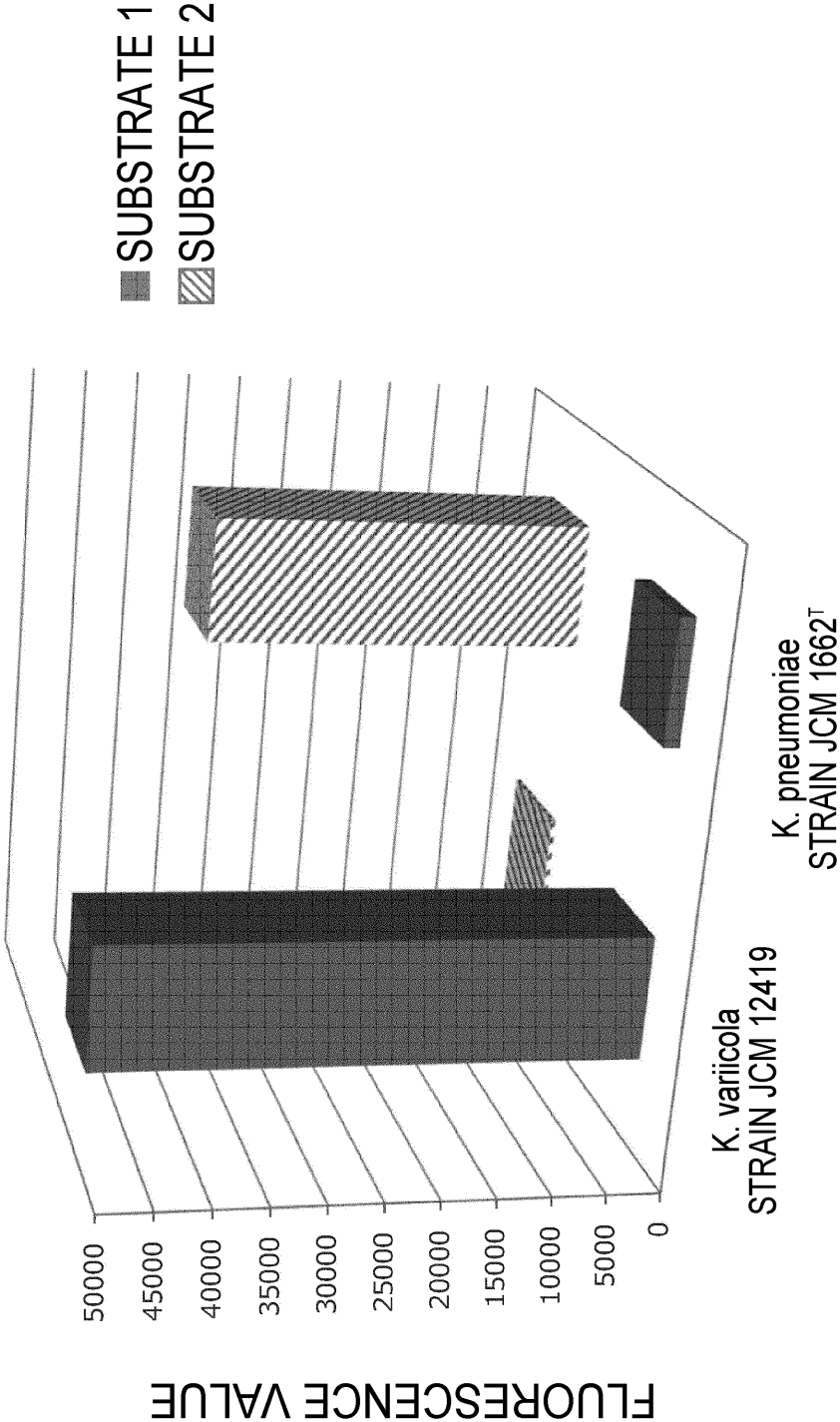
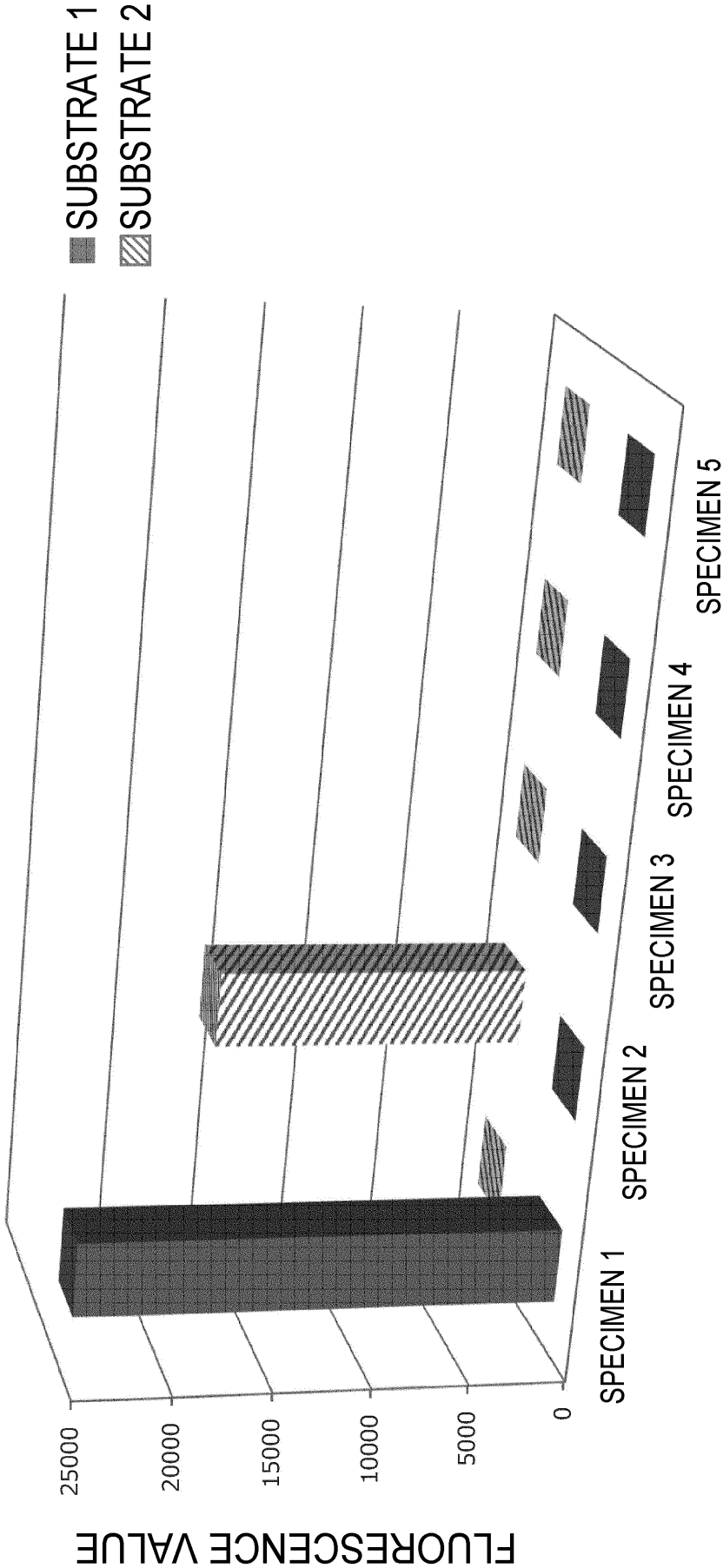


Fig. 5



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Fig. 6

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KlebsiellavariicolastrainDSM15968 1 ATGTCGAATTCTTATGACTCCTCCAGTATCAAAGTCCTGAAAGGGCTGGATGCGGTGCGT 60
KlebsiellavariicolastrainMGH20 1 ATGTCGAATTCTTATGACTCCTCCAGTATCAAAGTCCTGAAAGGGCTGGATGCGGTGCGT 60
KlebsiellavariicolastrainX39 1 ATGTCGAATTCTTATGACTCCTCCAGTATCAAAGTCCTGAAAGGGCTGGATGCGGTGCGT 60

KlebsiellavariicolastrainDSM15968 61 AAGCGCCCGGGTATGTATATCGGCGACACGGATGACGGCACCGGTCTGCACCACATGGTA 120
KlebsiellavariicolastrainMGH20 61 AAGCGCCCGGGTATGTATATCGGCGACACGGATGACGGCACCGGTCTGCACCACATGGTA 120
KlebsiellavariicolastrainX39 61 AAGCGCCCGGGTATGTATATCGGCGACACGGATGACGGCACCGGTCTGCACCACATGGTA 120

KlebsiellavariicolastrainDSM15968 121 TTCGAGGTTGTGGATAACGCTATCGACGAAGCGCTCGCGGGTTACTGCAAAGATATCGTT 180
KlebsiellavariicolastrainMGH20 121 TTCGAGGTTGTGGATAACGCTATCGACGAAGCGCTCGCGGGTTACTGCAAAGATATCGTT 180
KlebsiellavariicolastrainX39 121 TTCGAGGTTGTGGATAACGCTATCGACGAAGCGCTCGCGGGTTACTGCAAAGATATCGTT 180

KlebsiellavariicolastrainDSM15968 181 GTCACCATCCACAGCGATAACTCCGTCTCCGTACAGGATGACGGTCGCGGCATCCCAACC 240
KlebsiellavariicolastrainMGH20 181 GTCACCATCCACAGCGATAACTCCGTCTCCGTACAGGATGACGGTCGCGGCATCCCAACC 240
KlebsiellavariicolastrainX39 181 GTCACCATCCACAGCGATAACTCCGTCTCCGTACAGGATGACGGTCGCGGCATCCCAACC 240

KlebsiellavariicolastrainDSM15968 241 GGCATTACCCGGAAGAGGGCGTCTCCGCAGCGGAAGTTATCATGACCGTCCTGCACGCC 300
KlebsiellavariicolastrainMGH20 241 GGCATTACCCGGAAGAGGGCGTCTCCGCAGCGGAAGTTATCATGACCGTCCTGCACGCC 300
KlebsiellavariicolastrainX39 241 GGCATTACCCGGAAGAGGGCGTCTCCGCAGCGGAAGTTATCATGACCGTCCTGCACGCC 300
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Fig. 7

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KlebsiellavariicolastrainDSM15968 1 CGGCGGTAAATTTGATGATAACTCCTATAAAGTGTCGGCGGTCTGCACGGCGTAGGCGT 60
KlebsiellavariicolastrainMGH20 1 CGGCGGTAAATTTGATGATAACTCCTATAAAGTGTCGGCGGTCTGCACGGCGTAGGCGT 60
KlebsiellavariicolastrainX39 1 CGGCGGTAAATTTGATGATAACTCCTATAAAGTGTCGGCGGTCTGCACGGCGTAGGCGT 60

KlebsiellavariicolastrainDSM15968 61 CTCGGTGGTTAACGCCCTGTCGCAGAAGCTGGAGCTGGTTATCCAGCGCGATAACAAAGT 120
KlebsiellavariicolastrainMGH20 61 CTCGGTGGTTAACGCCCTGTCGCAGAAGCTGGAGCTGGTTATCCAGCGCGATAACAAAGT 120
KlebsiellavariicolastrainX39 61 CTCGGTGGTTAACGCCCTGTCGCAGAAGCTGGAGCTGGTTATCCAGCGCGATAACAAAGT 120

KlebsiellavariicolastrainDSM15968 121 CCACAAACAGATTTATGTGCACGGGTACCCGAGGCGCCGCTGGCGGTGACCGGCGAGAC 180
KlebsiellavariicolastrainMGH20 121 CCACAAACAGATTTATGTGCACGGGTACCCGAGGCGCCGCTGGCGGTGACCGGCGAGAC 180
KlebsiellavariicolastrainX39 121 CCACAAACAGATTTATGTGCACGGGTACCCGAGGCGCCGCTGGCGGTGACCGGCGAGAC 180

KlebsiellavariicolastrainDSM15968 181 CGATAAAACCGGCACCATGGTGCGTTTCTGGCCGAGCCATGAAACCTTCACCAACGTTAC 240
KlebsiellavariicolastrainMGH20 181 CGATAAAACCGGCACCATGGTGCGTTTCTGGCCGAGCCATGAAACCTTCACCAACGTTAC 240
KlebsiellavariicolastrainX39 181 CGATAAAACCGGCACCATGGTGCGTTTCTGGCCGAGCCATGAAACCTTCACCAACGTTAC 240

KlebsiellavariicolastrainDSM15968 241 TGAATTCGAATATGACATCCTGGCGAAACGCTGCGCGAGCTGTCGTTCCCTGAACTCAGG 300
KlebsiellavariicolastrainMGH20 241 TGAATTCGAATATGACATCCTGGCGAAACGCTGCGCGAGCTGTCGTTCCCTGAACTCAGG 300
KlebsiellavariicolastrainX39 241 TGAATTCGAATATGACATCCTGGCGAAACGCTGCGCGAGCTGTCGTTCCCTGAACTCAGG 300
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Fig. 8

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KlebsiellavariicolastrainDSM15968 1 ACGCCGATCCATCCGAATATCTTCTATTTCTCCACCGAAAAAGACGGTATCGGCGTGGAA 60
KlebsiellavariicolastrainMGH20 1 ACGCCGATCCATCCGAATATCTTCTATTTCTCCACCGAAAAAGACGGTATCGGCGTGGAA 60
KlebsiellavariicolastrainX39 1 ACGCCGATCCATCCGAATATCTTCTATTTCTCCACCGAAAAAGACGGTATCGGCGTGGAA 60

KlebsiellavariicolastrainDSM15968 61 GTGGCGCTGCAGTGGAACGACGGTTTCCAGGAAAACATCTACTGCTTTACCAACAACATT 120
KlebsiellavariicolastrainMGH20 61 GTGGCGCTGCAGTGGAACGACGGTTTCCAGGAAAACATCTACTGCTTTACCAACAACATT 120
KlebsiellavariicolastrainX39 61 GTGGCGCTGCAGTGGAACGACGGTTTCCAGGAAAACATCTACTGCTTTACCAACAACATT 120

KlebsiellavariicolastrainDSM15968 121 CCGCAGCGTGATGGCGGTACTCACCTGGCGGGCTTCCGCGCGGCGATGACCCGTACCCCTC 180
KlebsiellavariicolastrainMGH20 121 CCACAGCGTGACGGCGGTACTCACCTGGCGGGCTTCCGCGCGGCGATGACCCGTACCCCTC 180
KlebsiellavariicolastrainX39 121 CCGCAGCGTGATGGCGGTACTCACCTGGCGGGCTTCCGCGCGGCGATGACCCGTACCCCTC 180

KlebsiellavariicolastrainDSM15968 181 AACGCCTACATGGATAAAGAAGGCTACAGCAAAAAAGCGAAAGTCAGCGCCACCGGCGAC 240
KlebsiellavariicolastrainMGH20 181 AACGCCTACATGGATAAAGAAGGCTACAGCAAAAAAGCGAAAGTCAGCGCCACCGGCGAC 240
KlebsiellavariicolastrainX39 181 AACGCCTACATGGATAAAGAAGGCTACAGCAAAAAAGCGAAAGTCAGCGCCACCGGCGAC 240

KlebsiellavariicolastrainDSM15968 241 GACGCGCGTGAAGGTCTGATCGCCGTGGTATCGGTGAAAGTGCCGGATCCGAAATTCTCC 300
KlebsiellavariicolastrainMGH20 241 GACGCGCGTGAAGGTCTGATCGCCGTAGTATCGGTGAAAGTGCCGGATCCGAAATTCTCC 300
KlebsiellavariicolastrainX39 241 GACGCGCGTGAAGGTCTGATCGCCGTGGTATCGGTGAAAGTGCCGGATCCGAAATTCTCC 300

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Fig. 9

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KlebsiellavariicolastrainDSM15968 1 TGTACAAAGTGAAGAAAGGCAAGCAGGAACAGTACATTAAAGACGACGAAGCGATGGATC 60
KlebsiellavariicolastrainMGH20 1 TGTACAAAGTGAAGAAAGGCAAGCAGGAACAGTACATTAAAGACGACGAAGCGATGGATC 60
KlebsiellavariicolastrainX39 1 TGTACAAAGTGAAGAAAGGCAAGCAGGAACAGTACATTAAAGACGACGAAGCGATGGATC 60

KlebsiellavariicolastrainDSM15968 61 AGTATCAGATCGCTATCGCTCTTGACGGTGCACCCCTGCATACCAACGCCAATGCGCCGG 120
KlebsiellavariicolastrainMGH20 61 AGTATCAGATCGCTATCGCTCTTGACGGTGCACCCCTGCATACCAACGCCAATGCGCCGG 120
KlebsiellavariicolastrainX39 61 AGTATCAGATCGCTATCGCTCTTGACGGTGCACCCCTGCATACCAATGCCAATGCGCCGG 120

KlebsiellavariicolastrainDSM15968 121 CGCTGGCGGGCGAACCCTGGAAAACTGGTTGCCGAGTTCAACGCCACCCAGAAAAATGA 180
KlebsiellavariicolastrainMGH20 121 CGCTGGCGGGCGAACCCTGGAAAACTGGTTGCCGAGTTCAACGCCACCCAGAAAAATGA 180
KlebsiellavariicolastrainX39 121 CGCTGGCGGGCGAACCCTGGAAAACTGGTTGCCGAGTTCAACGCCACCCAGAAAAATGA 180

KlebsiellavariicolastrainDSM15968 181 TTGGCCGCATGGAGCGCCGCTTCCCGAAAGCGATGCTGAAAGAGCTTATCTATCAGCCGA 240
KlebsiellavariicolastrainMGH20 181 TTGGCCGCATGGAGCGCCGCTTCCCGAAAGCGATGCTGAAAGAGCTTATCTATCAGCCGA 240
KlebsiellavariicolastrainX39 181 TTGGCCGCATGGAGCGCCGCTTCCCGAAAGCGATGCTGAAAGAGCTTATCTATCAGCCGA 240

KlebsiellavariicolastrainDSM15968 241 CCCTGACCGAGGCCGATCTGGCTGACGAGCAGAAGGTAACCCGCTGGGTGAACACCCCTGG 300
KlebsiellavariicolastrainMGH20 241 CCCTGACCGAGGCCGATCTGGCTGACGAGCAGAAGGTAACCCGCTGGGTGAACACCCCTGG 300
KlebsiellavariicolastrainX39 241 CCCTGACCGAGGCCGATCTGGCTGACGAGCAGAAGGTAACCCGCTGGGTGAACACCCCTGG 300
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Fig. 10

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KlebsiellavariicolastrainDSM15968 1 GGGCCGGAATATCGCCGTATCTGCACCCTGGGCGAGAACTGCGCGGCCTGATGGAAGAA 60
KlebsiellavariicolastrainMGH20 1 GGGCCGGAATATCGCCGTATCTGCACCCTGGGCGAGAACTGCGCGGCCTGATGGAAGAA 60
KlebsiellavariicolastrainX39 1 GGGCCGGAATATCGCCGTATCTGCACCCTGGGCGAGAACTGCGCGGCCTGATGGAAGAA 60

KlebsiellavariicolastrainDSM15968 61 GATGCCTACATCGAGCGCGGCGAACGCCGTCAGCCGGTAGCCAGCTTCGAGCAGGCTCTC 120
KlebsiellavariicolastrainMGH20 61 GATGCCTACATCGAGCGCGGCGAACGCCGTCAGCCGGTAGCCAGCTTCGAGCAGGCTCTC 120
KlebsiellavariicolastrainX39 61 GATGCCTACATCGAGCGCGGCGAACGCCGTCAGCCGGTAGCCAGCTTCGAGCAGGCTCTC 120

KlebsiellavariicolastrainDSM15968 121 GACTGGCTGGTGAAGGAGTCCCGTCGCGGTCTCTCCATCCAGCGCTATAAAGGTCTGGGC 180
KlebsiellavariicolastrainMGH20 121 GACTGGCTGGTGAAGGAGTCCCGTCGCGGTCTCTCCATCCAGCGCTATAAAGGTCTGGGC 180
KlebsiellavariicolastrainX39 121 GACTGGCTGGTGAAGGAGTCCCGTCGCGGTCTCTCCATCCAGCGCTATAAAGGTCTGGGC 180

KlebsiellavariicolastrainDSM15968 181 GAGATGAACCCGGATCAGCTGTGGGAAACCACCATGGATCCGGACAGCCGCCGCATGCTG 240
KlebsiellavariicolastrainMGH20 181 GAGATGAACCCGGATCAGCTGTGGGAAACCACCATGGATCCGGACAGCCGCCGCATGCTG 240
KlebsiellavariicolastrainX39 181 GAGATGAACCCGGATCAGCTGTGGGAAACCACCATGGATCCGGACAGCCGCCGCATGCTG 240

KlebsiellavariicolastrainDSM15968 241 CGCGTAACCGTTAAGGATGCGATCGCTGCCGACCAGCTGTTACACACCTGATGGGCGAT 300
KlebsiellavariicolastrainMGH20 241 CGCGTAACCGTTAAGGATGCGATCGCTGCCGACCAGCTGTTACACACCTGATGGGCGAT 300
KlebsiellavariicolastrainX39 241 CGCGTAACCGTTAAGGATGCGATCGCTGCCGACCAGCTGTTACACACCTGATGGGCGAT 300
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Fig. 11

