SEQUENCE LISTING

<110> NeuTec Pharma Plc
Burnie, James
Matthews, Ruth
Carter, Tracey

<120> Treatment of Bacterial Infections

<130> WA/MP101123WO

<150> GB 0414886.2
<151> 2004-07-02

<160> 47

<170> PatentIn version 3.2

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Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Val Ser Ser Gly
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Ser Tyr Ser Trp Ser Trp Ile Arg Gln Arg Pro Gly Gln Gly Leu Glu
35 40 45

Trp Ile Gly Phe Ile Tyr Tyr Thr Gly Tyr Thr Ser Tyr Lys Ser Ser
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Leu Lys Ser Arg Val Ser Leu Ser Val Asp Thr Ser Asn Asp Gln Phe
65 70 75 80

Ser Leu Ser Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
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Cys Ala Arg Glu Ile Arg Ala Pro Asp His His Asp Phe Ser Gly Tyr
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Leu Gly Arg Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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Glu Ile Arg Ala Pro Asp His His Asp Phe Ser Gly Tyr Leu Gly Cys
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Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala
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Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
35 40 45

Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser
50 55 60

Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu
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Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Thr Gly Asn Gln
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Leu Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly

100 105

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Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser
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Asn Ser Arg Asp Ser Ser Gly Asn Leu Gly Val

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Asn Ser Arg Asp Ser Ser Gly Tyr His Val Ile
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Ser Ser Arg Asp Ser Lys Gly His Arg Tyr Val
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Ser Ser Arg Asp Ser Asn Gly Asn Arg Tyr Val
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Ser Ser Arg Asp Thr Lys Gly His Arg Tyr Val
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Lys Pro Arg Asp Ser Ser Gly Asn His Val
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Ser Arg Asp Ser Ser Gly His Val Ala Val
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Asn Ser Arg Asp Ser Ser Gly Asp Pro Leu Gly Val
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Ala Ser Arg Asp Ser Ser Gly His Val Ala Val
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Asn Ser Arg Asp Ser Ser Gly Asn Leu Gly Cys
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Asn Ser Arg Asp Ser Ser Gly Asn Leu Gly Trp
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Ser Ser Arg Asp Arg Asn Gly His Arg Tyr Val

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Ser Ser Arg His Thr Lys Gly His Arg Tyr Val
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Thr Ser Arg Asp Ser Asn Gly Asn Arg Tyr Val
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Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Val Ser Ser Gly
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Ser Tyr Ser Trp Ser Trp Ile Arg Gln Arg Pro Gly Gln Gly Leu Glu
35 40 45

Trp Ile Gly Phe Ile Tyr Tyr Thr Gly Tyr Thr Ser Tyr Lys Ser Ser
50 55 60

Leu Lys Ser Arg Val Ser Leu Ser Val Asp Thr Ser Asn Asp Gln Phe
65 70 75 80

Ser Leu Ser Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Arg Glu Ile Arg Ala Pro Asp His His Asp Phe Ser Gly Tyr

100 105 110

Leu Gly Arg Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Ser Lys Ser Ser
130 135 140

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val
145 150 155 160

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp
165 170 175

Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys
180 185 190

Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser
195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu
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Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Thr Gly Asn Gln Leu Phe
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Gly Gly Gly Thr Lys Val Thr Val Leu Gly
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Leu Thr Ala Gly Leu Gly

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Thr Ala Val Gly Ser Phe Gly Gly Ala Phe Lys Ser Val Ser Ala Val
35 40 45

Glu Leu Gly Val Thr Ala Ala Lys Glu Ala Ile Lys Arg Ala Asn Ile
50 55 60

Thr Pro Asp Met Ile Asp Glu Ser Leu Leu Gly Gly Val Leu Thr Ala
65 70 75 80

Gly Leu Gly Gln Asn Ile Ala Arg Gln Ile Ala Leu Gly Ala Gly Ile
85 90 95

Pro Val Glu Lys Pro Ala Met Thr Ile Asn Ile Val Cys Gly Ser Gly
100 105 110

Leu Arg Ser Val Ser Met Ala Ser Gln Leu Ile Ala Leu Gly Asp Ala
115 120 125

Asp Ile Met Leu Val Gly Gly Ala Glu Asn Met Ser Met Ser Pro Tyr
130 135 140

Leu Val Pro Ser Ala Arg Tyr Gly Ala Arg Met Gly Asp Ala Ala Phe
145 150 155 160

Val Asp Ser Met Ile Lys Asp Gly Leu Ser Asp Ile Phe Asn Asn Tyr
165 170 175

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His Met Gly Ile Thr Ala Glu Asn Ile Ala Glu Gln Trp Asn Ile Thr
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Arg Glu Glu Gln Asp Glu Leu Ala Leu Ala Ser Gln Asn Lys Ala Glu
        195                 200                 205

Lys Ala Gln Ala Glu Gly Lys Phe Asp Glu Glu Ile Val Pro Val Val
    210                 215                 220

Ile Lys Gly Arg Lys Gly Asp Thr Val Val Asp Lys Asp Glu Tyr Ile
225                 230                 235                 240

Lys Pro Gly Thr Thr Met Glu Lys Leu Ala Lys Leu Arg Pro Ala Phe
                245                 250                 255

Lys Lys Asp Gly Thr Val Thr Ala Gly Asn Ala Ser Gly Ile Asn Asp
            260                 265                 270

Gly Ala Ala Met Leu Val Val Met Ala Lys Glu Lys Ala Glu Glu Leu
        275                 280                 285

Gly Ile Glu Pro Leu Ala Thr Ile Val Ser Tyr Gly Thr Ala Gly Val
    290                 295                 300

Asp Pro Lys Ile Met Gly Tyr Gly Pro Val Pro Ala Thr Lys Lys Ala
305                 310                 315                 320

Leu Glu Ala Ala Asn Met Thr Ile Glu Asp Ile Asp Leu Val Glu Ala
                325                 330                 335

Asn Glu Ala Phe Ala Ala Gln Ser Val Ala Val Ile Arg Asp Leu Asn
            340                 345                 350

Ile Asp Met Asn Lys Val Asn Val Asn Gly Gly Ala Ile Ala Ile Gly
        355                 360                 365

His Pro Ile Gly Cys Ser Gly Ala Arg Ile Leu Thr Thr Leu Leu Tyr
    370                 375                 380

Glu Met Lys Arg Arg Asp Ala Lys Thr Gly Leu Ala Thr Leu Cys Ile
385                 390                 395                 400

Gly Gly Gly Met Gly Thr Thr Leu Ile Val Lys Arg
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ccagcgccca ggacagggcc tggagtggat tgggttcatc tactacactg ggtacacctc 180

ctacaagtcg tccctcaaga gtcgagtctc cctgtcggtt gacacgtcta acgaccagtt 240

ctccctgagc ctgagctctg taactgccgc ggacacggcc gtgtattact gtgcgaggga 300

aattcgtgcc ccagatcacc atgattttag tggttatctc ggccgctggg gccagggaac 360

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tggcggcggt agcgctagct tcttctgagc tgactcagga ccctgctgtg tctgtggcct 480

tgggacagac agtcaggatc acatgccaag gagacagcct cagaagctat tatgcaagct 540

ggtaccagca gaagccagga caggcccctg tacttgtcat ctatggtaaa aacaaccggc 600

cctcagggat cccagaccga ttctctggct ccagctcagg taacacagct tccttgacca 660

tcactggggc gcaggcggaa gatgaggctg actactactg taactcccgg gacagcactg 720

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<223> C.difficile thiolase conserved epitope

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Val Val Ile Ala
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