

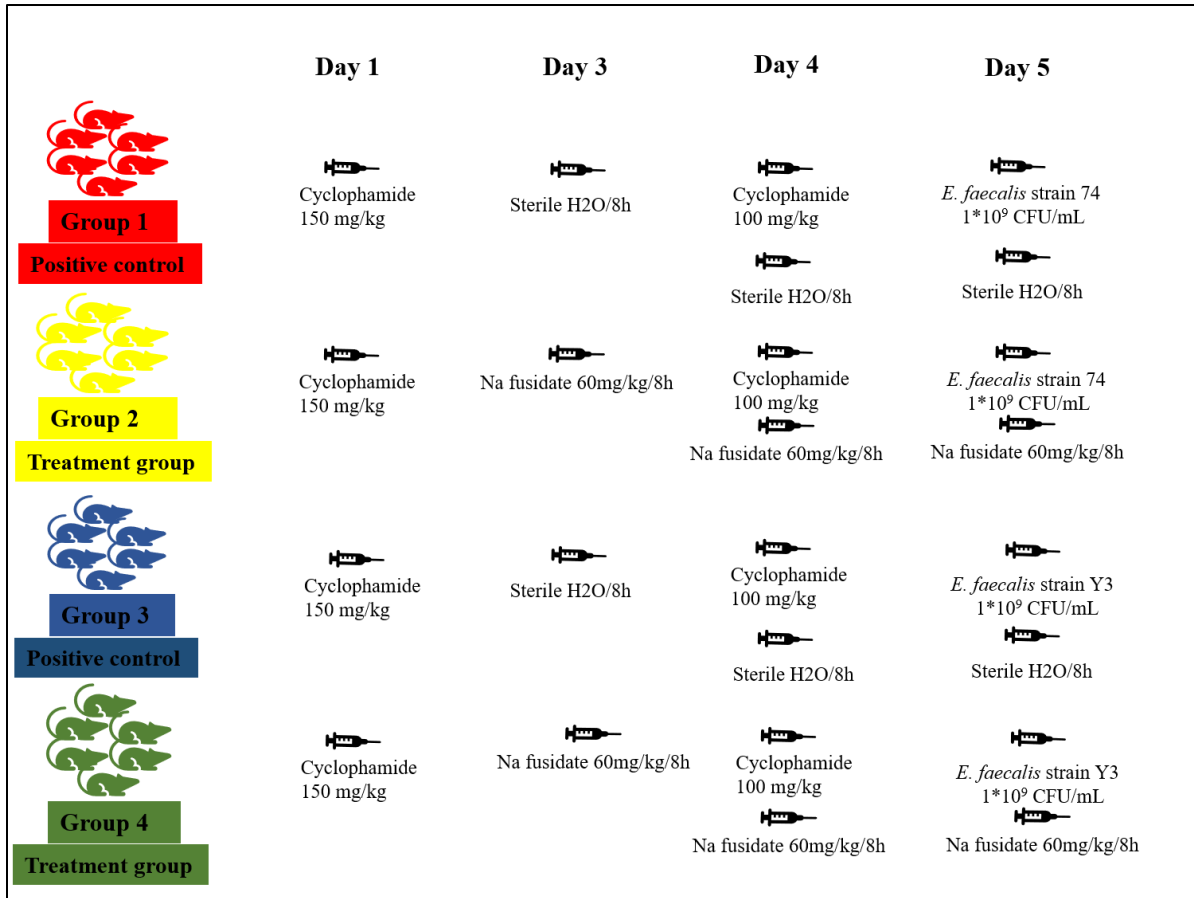


Figure S1 BALB/c mice infection with *E. faecalis* and the applied fusidic acid treatment regimen

Table S1. Accession numbers of the *E. faecium* sequences used in primer design

Strain name	Accession number
<i>Enterococcus faecium</i> DO	<u>CP003583.1</u>
<i>Enterococcus faecium</i> strain VB3025	<u>CP040236.1</u>
<i>Enterococcus faecium</i> strain F17E0263	<u>CP040849.1</u>
<i>Enterococcus faecium</i> strain SRR24	<u>CP038996.1</u>
<i>Enterococcus faecium</i> strain UAMSEF_09	<u>CP035660.1</u>
<i>Enterococcus faecium</i> strain UAMSEF_20	<u>CP035666.1</u>
<i>Enterococcus faecium</i> strain UAMSEF_08	<u>CP035654.1</u>
<i>Enterococcus faecium</i> strain VB3240	<u>CP040368.1</u>
<i>Enterococcus faecium</i> strain RBWH1	<u>CP033206.1</u>

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E.faecium_ATCC27270  MTREFSLQNTRNIGIMAHIDAGKTTATERILYYTGKIHKIGETHEGASQMDWMEQE QERG 60
E.faecium_ip15      MTREFSLQNTRNIGIMAHIDAGKTTATERILYYTGKIHKIGETHEGASQMDWMEQE QERG 60
E.faecium_ip15f     MTREFSLQNTRNIGIMAHIDAGKTTATERILYYTGKIHKIGETHEGASQMDWMEQE QERG 60
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E.faecium_ATCC27270  ITITSAATTAQWKGRHINI IDTPGHVDFTVEVERSLRVLGDGAVTVLDAQSGVEPQTETVW 120
E.faecium_ip15      ITITSAATTAQWKGRHINI IDTPGHVDFTVEVERSLRVLGDGAVTVLDAQSGVEPQTETVW 120
E.faecium_ip15f     ITITSAATTAQWKGRHINI IDTPGHVDFTVEVERSLRVLGDGAVTVLDAQSGVEPQTETVW 120
*****

E.faecium_ATCC27270  RQATTYGVPRIVFANKMDKIGADFLYSVSTLHDLRLQANAHPIQLPIGAEDDFTGIIDLVT 180
E.faecium_ip15      RQATTYGVPRIVFANKMDKIGADFLYSVSTLHDLRLQANAHPIQLPIGAEDDFTGIIDLVT 180
E.faecium_ip15f     RQATTYGVPRIVFANKMDKIGADFLYSVSTLHDLRLQANAHPIQLPIGAEDDFTGIIDLVT 180
*****

E.faecium_ATCC27270  MKAEMYTNDLGTEIEETEIP E EYRELAE EWREKLVEAVAETDEELTLKYLEGEEITEAEL 240
E.faecium_ip15      MKAEMYTNDLGTEIEETEIP E EYRELAE EWREKLVEAVAETDEELTLKYLEGEEITEAEL 240
E.faecium_ip15f     MKAEMYTNDLGTEIEETEIP E EYRELAE EWREKLVEAVAETDEELTLKYLEGEEITEAEL 240
*****

E.faecium_ATCC27270  KEGIR RATVNVEFYPVLCGSAFKNKG VQ LLLDAVL DYLPSPLDIPA IKGIDPKTDEEVER 300
E.faecium_ip15      KEGIR RATVNVEFYPVLCGSAFKNKG VQ LLLDAVL DYLPSPLDIPA IKGIDPKTDEEVER 300
E.faecium_ip15f     KEGIR RATVNVEFYPVLCGSAFKNKG VQ LLLDAVL DYLPSPLDIPA IKGIDPKTDEEVER 300
*****

E.faecium_ATCC27270  PADDSAPFSALAFKVMTPDFVGR LTFFRVYSGVLKSGSYVQ NATKGKRRVGRILQMHAN 360
E.faecium_ip15      PADDSAPFSALAFKVMTPDFVGR LTFFRVYSGVLKSGSYVQ NATKGKRRVGRILQMHAN 360
E.faecium_ip15f     PADDSAPFSALAFKVMTPDFVGR LTFFRVYSGVLKSGSYVQ NATKGKRRVGRILQMHAN 360
*****

E.faecium_ATCC27270  SRSEISEVYAGDIAAAVGLKDT TTTGDTLCDEKNLVILESM EFPEPVIQVAIEPKSKADQD 420
E.faecium_ip15      SRSEISEVYAGDIAAAVGLKDT TTTGDTLCDEKNLVILESM EFPEPVIQVAIEPKSKADQD 420
E.faecium_ip15f     SRSEISEVYAGDIAAAVGLKDT TTTGDTLCDEKNLVILESM EFPEPVIQVAIEPKSKADQD 420
*****

E.faecium_ATCC27270  KMGVALQKLSEEDPTFRAETNVETGETIIAGMGELHLDIIVDRMRREFKVEANVGAPQVS 480
E.faecium_ip15      KMGVALQKLSEEDPTFRAETNVETGETIIAGMGELHLDIIVDRMRREFKVEANVGAPQVS 480
E.faecium_ip15f     KMGVALQKLSEEDPTFRAETNVETGETIIAGMGELHLDIIVDRMRREFKVEANVGAPQVS 480
*****

E.faecium_ATCC27270  YRETFRAGTQAE GKFVRQSGGKGQYGHVWIEFTPNEEGAGFEFENAI VGGVVPREYIPAV 540
E.faecium_ip15      YRETFRAGTQAE GKFVRQSGGKGQYGHVWIEFTPNEEGAGFEFENAI VGGVVPREYIPAV 540
E.faecium_ip15f     YRETFRAGTQAE GKFVRQSGGKGQYGHVWIEFTPNEEGAGFEFENAI VGGVVPREYIPAV 540
*****

E.faecium_ATCC27270  ETGLKDAMENGVL AGYPLVDI KAKLYDGSYHDVDSNETAFRVAAS MALRAA A KKANPVIL 600
E.faecium_ip15      ETGLKDAMENGVL AGYPLVDI KAKLYDGSYHDVDSNETAFRVAAS MALRAA A KKANPVIL 600
E.faecium_ip15f     ETGLKDAMENGVL AGYPLVDI KAKLYDGSYHDVDSNETAFRVAAS MALRAA A KKANPVIL 600
*****

E.faecium_ATCC27270  EPIMAVEVVI PEDYLGDMGHVTARRGRVEGMEARAGGQQVVRAMVPLA IIGYATT LRS 660
E.faecium_ip15      EPIMAVEVVI PEDYLGDMGHVTARRGRVEGMEARAGGQQVVRAMVPLA IIGYATT LRS 660
E.faecium_ip15f     EPIMAVEVVI PEDYLGDMGHVTARRGRVEGMEARAGGQQVVRAMVPLA IIGYATT LRS 660
*****

E.faecium_ATCC27270  ATQGRGTFTMTFDHYEDVPKSVQEEI IKKNGGKAE 695
E.faecium_ip15      ATQGRGTFTMTFDHYEDVPKSVQEEI IKKNGGKAE 695
E.faecium_ip15f     ATQGRGTFTMTFDHYEDVPKSVQEEI IKKNGGKAE 695
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Figure S2 Multiple sequence alignment of the translated sequences of the *fusA* gene from the parent *Enterococcus faecium* ATCC 27270, the resistant *E. faecium* iP15 obtained after the passage of the *E. faecium* ATCC 27270 in increasing fusidic acid concentrations for 15 consecutive passages and the revertant *E. faecium* iP15f obtained after the passage of *E. faecium* iP15 in a fusidic acid-free medium for 10 consecutive passages