

FIG. 1A

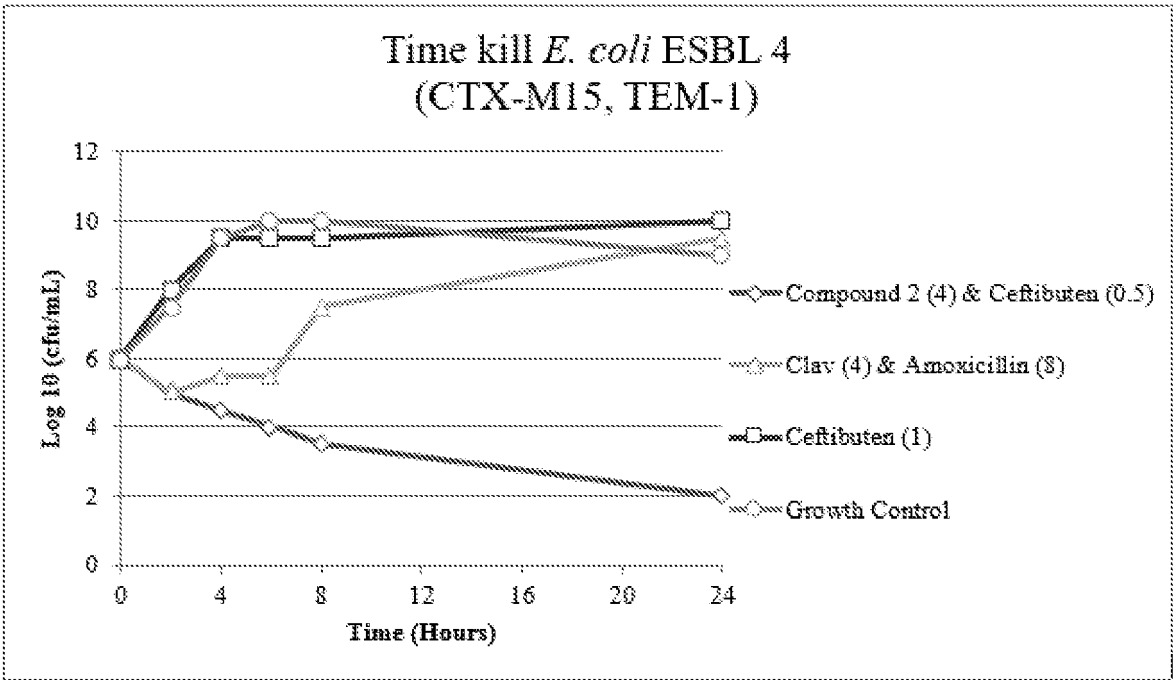
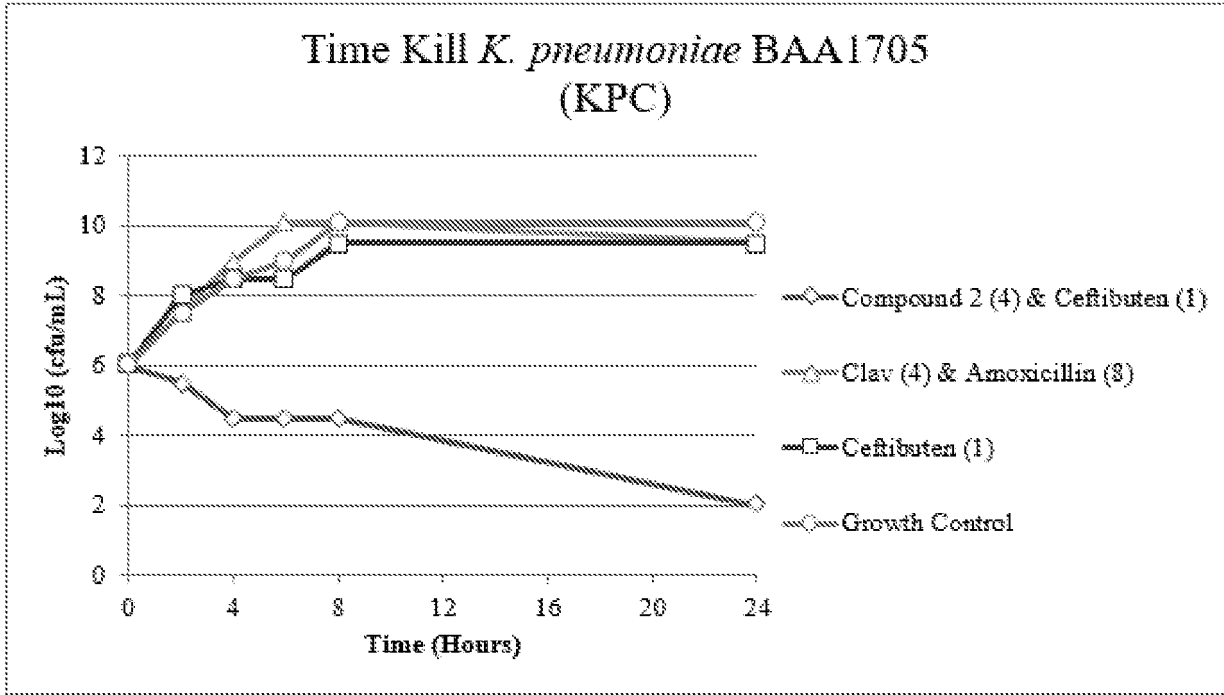


FIG. 1B



2/17

FIG. 1C

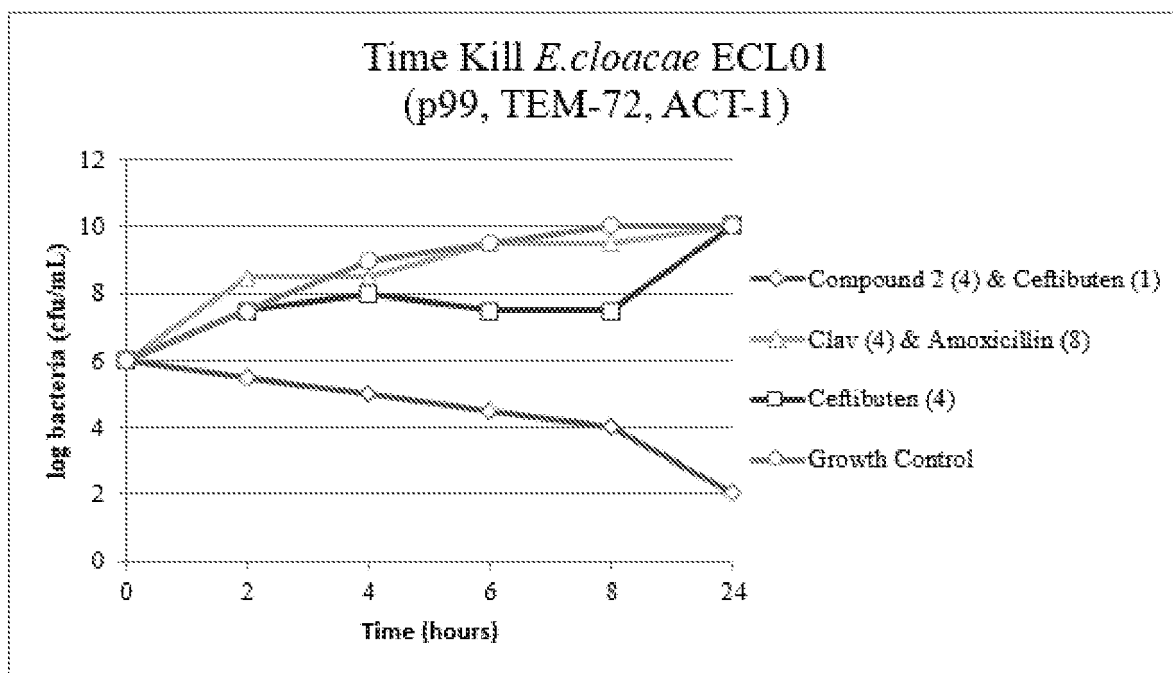
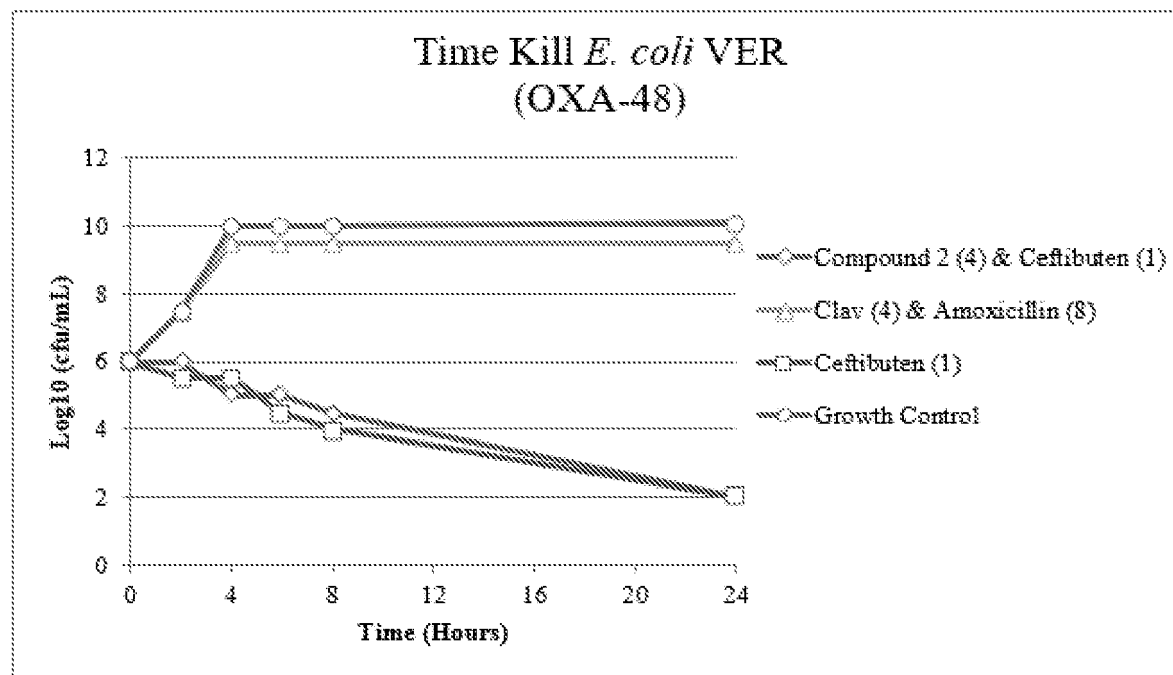
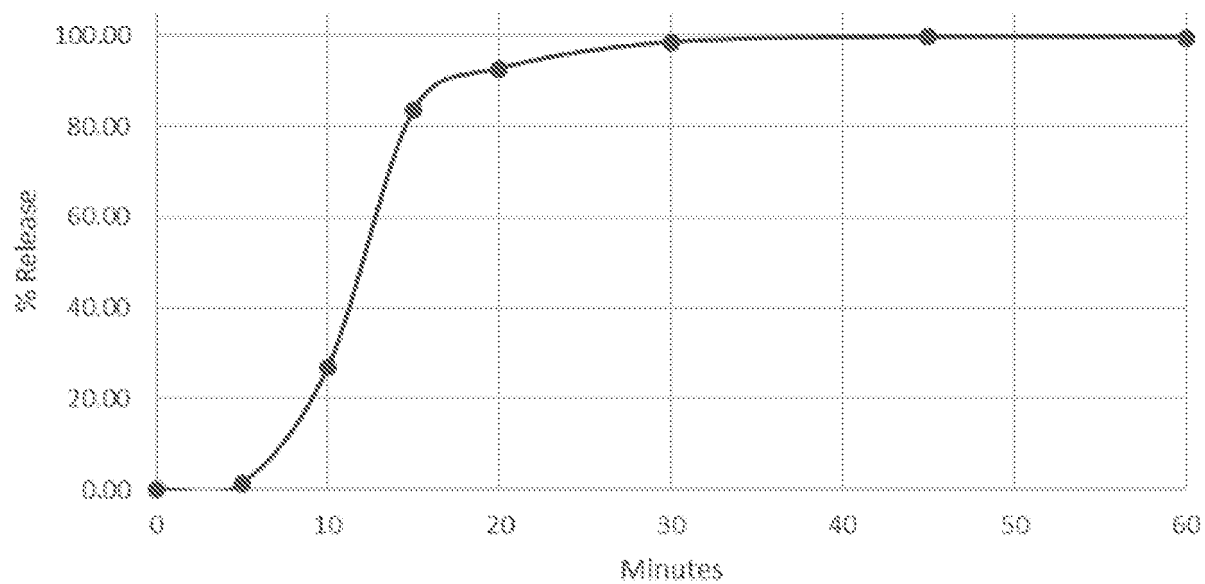


FIG. 1D



3/17

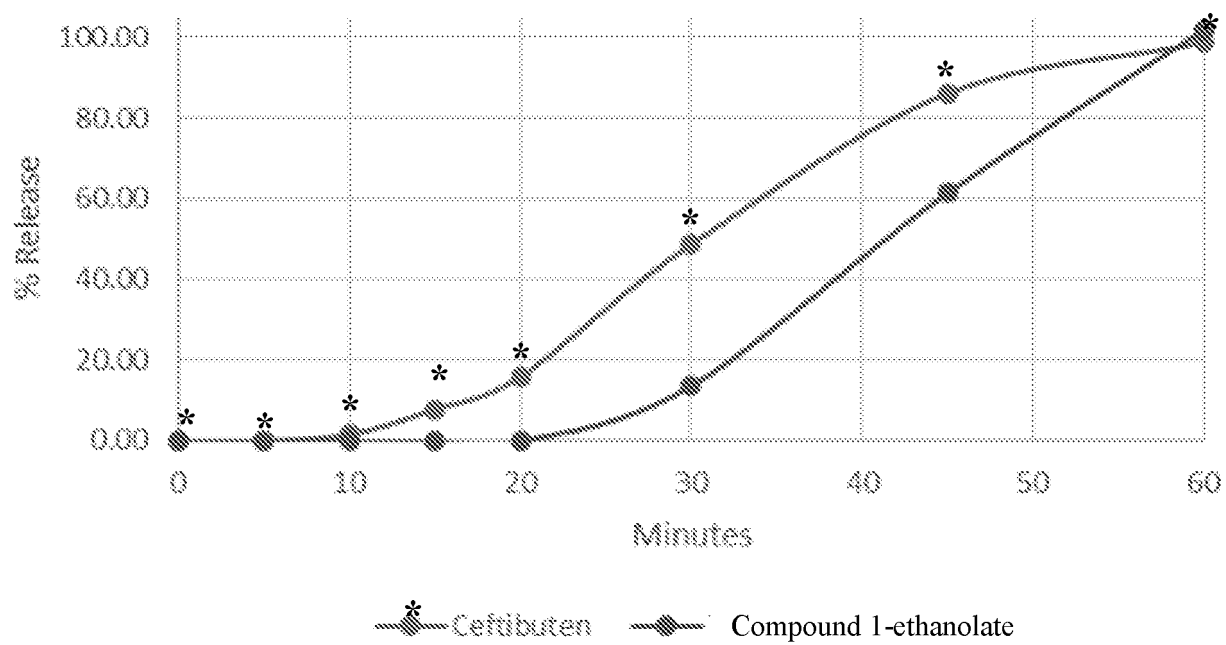
FIG. 2



—◆— Compound 1-ethanolate

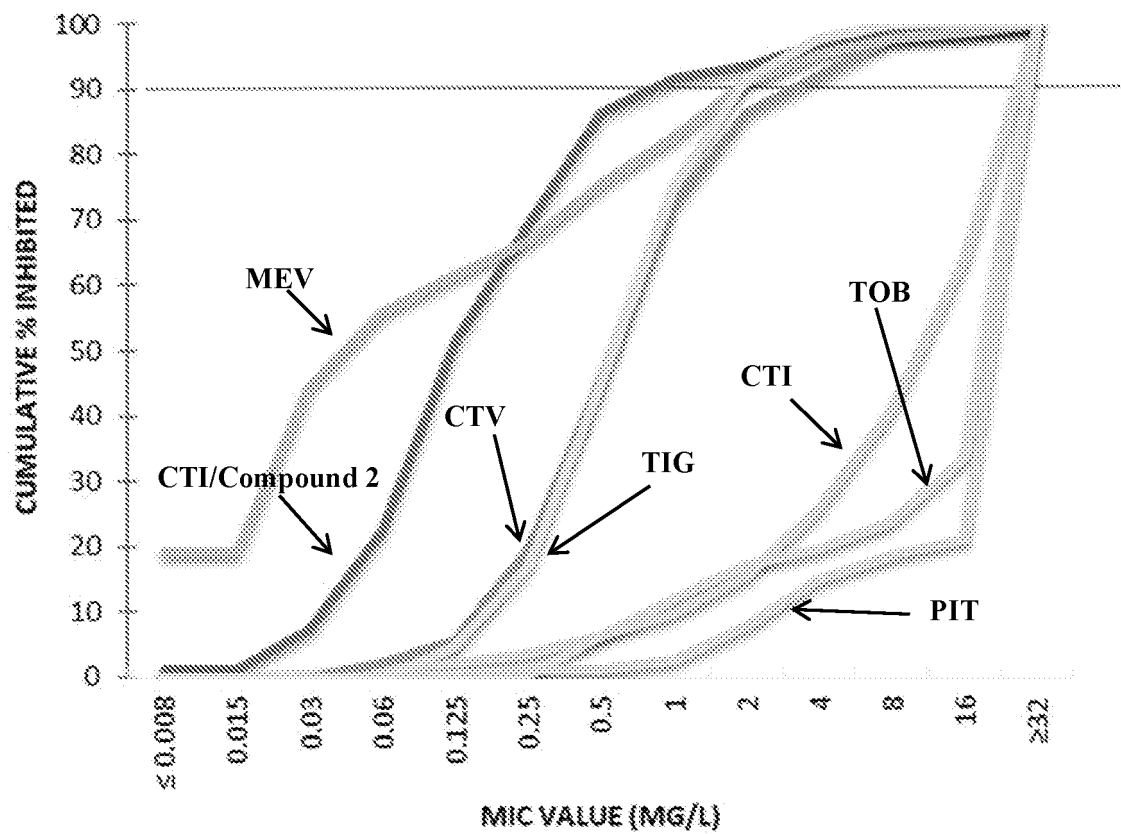
4/17

FIG. 3



5/17

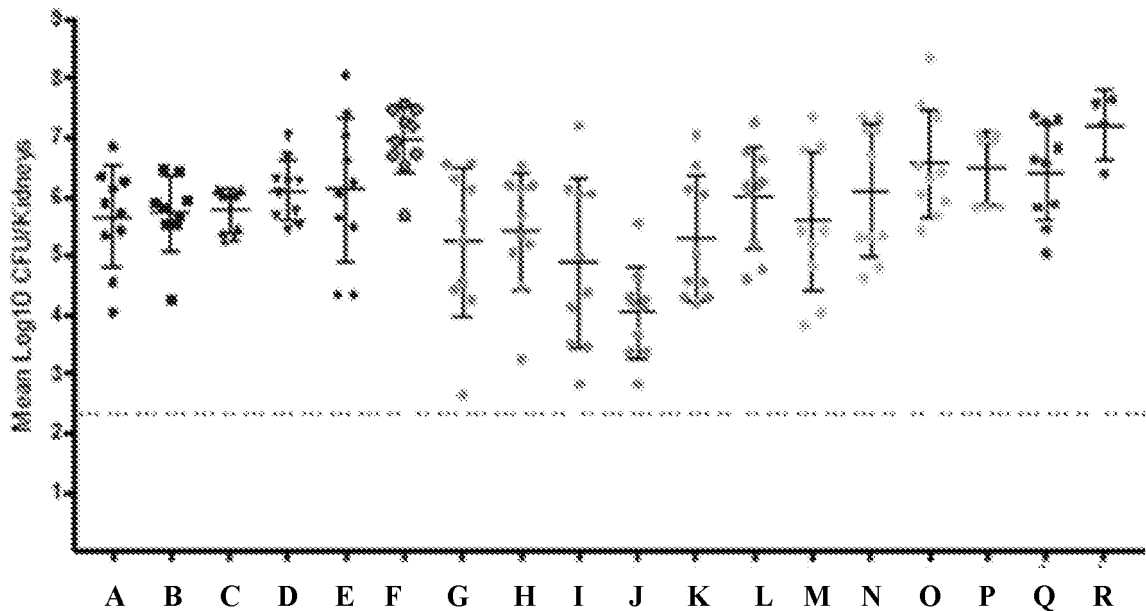
FIG. 4



- CTI/Compound 2 = ceftibuten + Compound 2 fixed at 4 mg/L
- CTI = ceftibuten
- CTV = ceftazidime-avibactam
- MEV = meropenem-vaborbactam
- PIT = piperacillin-tazobactam
- TOB = tobramycin
- TIG = tigecycline

6/17

FIG. 5A

*E. coli* UNT057-1 (CTX-M-15); Kidneys

A = Ceftibuten – 300 mg/kg

B = Ceftibuten – 100 mg/kg

C = Ceftibuten – 30 mg/kg

D = Ceftibuten – 10 mg/kg

E = Ceftibuten – 3 mg/kg

F = Ceftibuten – 1 mg/kg

G = Ceftibuten:Compound 2, 1:1 (300 mg/kg:300 mg/kg)

H = Ceftibuten:Compound 2, 1:1 (100 mg/kg:100 mg/kg)

I = Ceftibuten:Compound 2, 1:1 (30 mg/kg:30 mg/kg)

J = Ceftibuten:Compound 2, 1:1 (10 mg/kg:10 mg/kg)

K = Ceftibuten:Compound 2, 1:1 (3 mg/kg:3 mg/kg)

L = Ceftibuten:Compound 2, 1:1 (1 mg/kg:1 mg/kg)

M = Amoxicillin:Clavulanate, 2:1 (300 mg/kg:150 mg/kg)

N = Amoxicillin:Clavulanate, 2:1 (100 mg/kg:50 mg/kg)

O = Amoxicillin:Clavulanate, 2:1 (30 mg/kg:15 mg/kg)

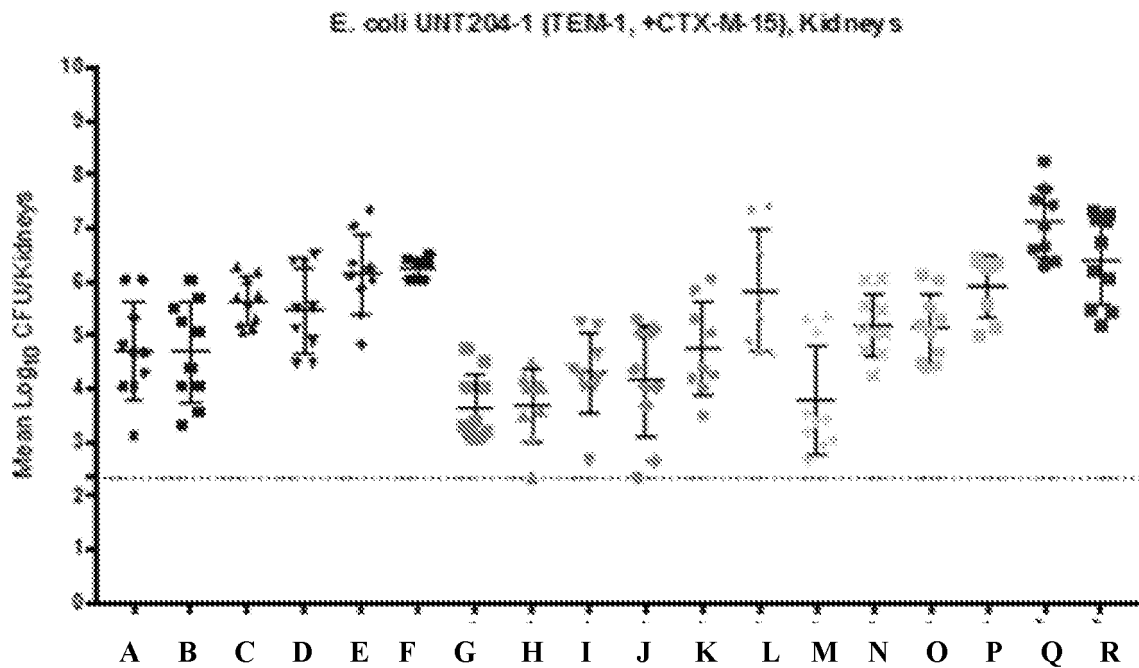
P = Amoxicillin:Clavulanate, 2:1 (10 mg/kg:5 mg/kg)

Q = 7 day control

R = 4 day control

7/17

FIG. 5B



A = Ceftibuten – 300 mg/kg

B = Ceftibuten – 100 mg/kg

C = Ceftibuten – 30 mg/kg

D = Ceftibuten – 10 mg/kg

E = Ceftibuten – 3 mg/kg

F = Ceftibuten – 1 mg/kg

G = Ceftibuten:Compound 2, 1:1 (300 mg/kg:300 mg/kg)

H = Ceftibuten:Compound 2, 1:1 (100 mg/kg:100 mg/kg)

I = Ceftibuten:Compound 2, 1:1 (30 mg/kg:30 mg/kg)

J = Ceftibuten:Compound 2, 1:1 (10 mg/kg:10 mg/kg)

K = Ceftibuten:Compound 2, 1:1 (3 mg/kg:3 mg/kg)

L = Ceftibuten:Compound 2, 1:1 (1 mg/kg:1 mg/kg)

M = Amoxicillin:Clavulanate, 2:1 (300 mg/kg:150 mg/kg)

N = Amoxicillin:Clavulanate, 2:1 (100 mg/kg:50 mg/kg)

O = Amoxicillin:Clavulanate, 2:1 (30 mg/kg:15 mg/kg)

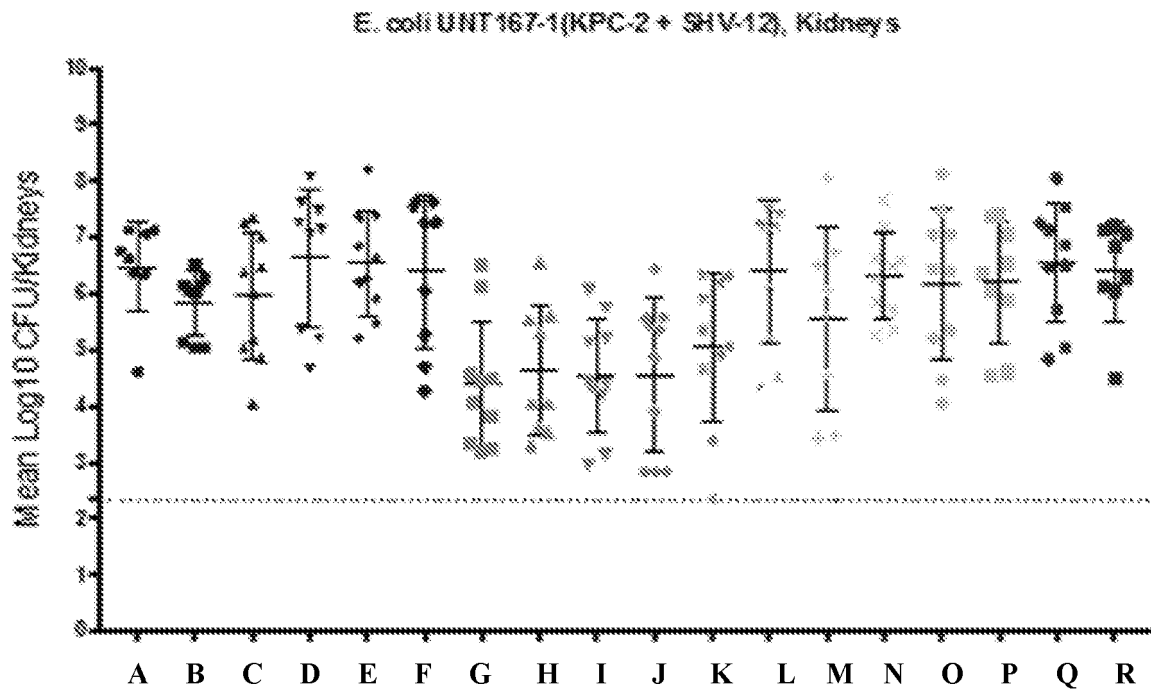
P = Amoxicillin:Clavulanate, 2:1 (10 mg/kg:5 mg/kg)

Q = 7 day control

R = 4 day control

8/17

FIG. 5C



A = Ceftibuten – 300 mg/kg

B = Ceftibuten – 100 mg/kg

C = Ceftibuten – 30 mg/kg

D = Ceftibuten – 10 mg/kg

E = Ceftibuten – 3 mg/kg

F = Ceftibuten – 1 mg/kg

G = Ceftibuten:Compound 2, 1:1 (300 mg/kg:300 mg/kg)

H = Ceftibuten:Compound 2, 1:1 (100 mg/kg:100 mg/kg)

I = Ceftibuten:Compound 2, 1:1 (30 mg/kg:30 mg/kg)

J = Ceftibuten:Compound 2, 1:1 (10 mg/kg:10 mg/kg)

K = Ceftibuten:Compound 2, 1:1 (3 mg/kg:3 mg/kg)

L = Ceftibuten:Compound 2, 1:1 (1 mg/kg:1 mg/kg)

M = Amoxicillin:Clavulanate, 2:1 (300 mg/kg:150 mg/kg)

N = Amoxicillin:Clavulanate, 2:1 (100 mg/kg:50 mg/kg)

O = Amoxicillin:Clavulanate, 2:1 (30 mg/kg:15 mg/kg)

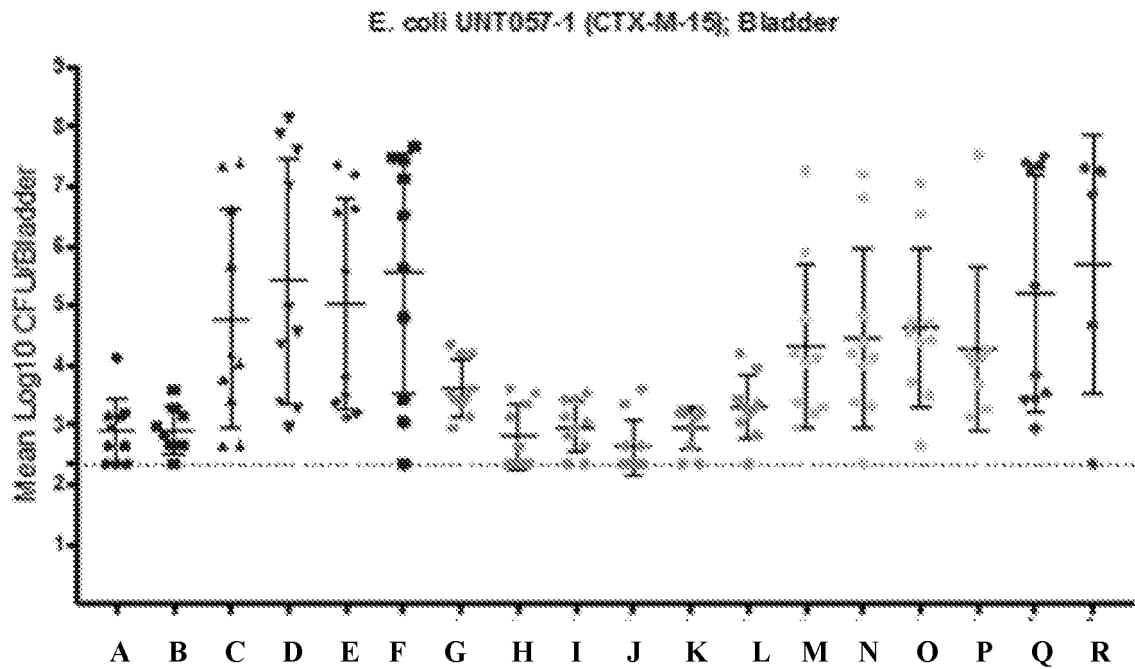
P = Amoxicillin:Clavulanate, 2:1 (10 mg/kg:5 mg/kg)

Q = 7 day control

R = 4 day control

9/17

FIG. 6A



A = Ceftibuten – 300 mg/kg

B = Ceftibuten – 100 mg/kg

C = Ceftibuten – 30 mg/kg

D = Ceftibuten – 10 mg/kg

E = Ceftibuten – 3 mg/kg

F = Ceftibuten – 1 mg/kg

G = Ceftibuten:Compound 2, 1:1 (300 mg/kg:300 mg/kg)

H = Ceftibuten:Compound 2, 1:1 (100 mg/kg:100 mg/kg)

I = Ceftibuten:Compound 2, 1:1 (30 mg/kg:30 mg/kg)

J = Ceftibuten:Compound 2, 1:1 (10 mg/kg:10 mg/kg)

K = Ceftibuten:Compound 2, 1:1 (3 mg/kg:3 mg/kg)

L = Ceftibuten:Compound 2, 1:1 (1 mg/kg:1 mg/kg)

M = Amoxicillin:Clavulanate, 2:1 (300 mg/kg:150 mg/kg)

N = Amoxicillin:Clavulanate, 2:1 (100 mg/kg:50 mg/kg)

O = Amoxicillin:Clavulanate, 2:1 (30 mg/kg:15 mg/kg)

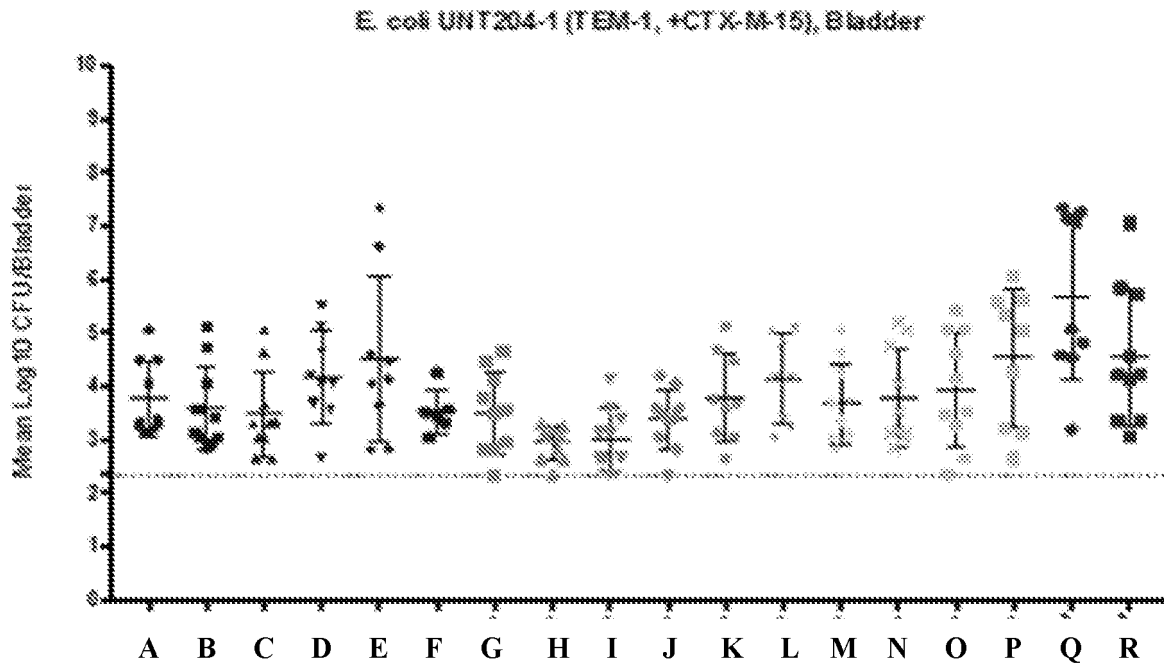
P = Amoxicillin:Clavulanate, 2:1 (10 mg/kg:5 mg/kg)

Q = 7 day control

R = 4 day control

10/17

FIG. 6B



A = Ceftibuten – 300 mg/kg

B = Ceftibuten – 100 mg/kg

C = Ceftibuten – 30 mg/kg

D = Ceftibuten – 10 mg/kg

E = Ceftibuten – 3 mg/kg

F = Ceftibuten – 1 mg/kg

G = Ceftibuten:Compound 2, 1:1 (300 mg/kg:300 mg/kg)

H = Ceftibuten:Compound 2, 1:1 (100 mg/kg:100 mg/kg)

I = Ceftibuten:Compound 2, 1:1 (30 mg/kg:30 mg/kg)

J = Ceftibuten:Compound 2, 1:1 (10 mg/kg:10 mg/kg)

K = Ceftibuten:Compound 2, 1:1 (3 mg/kg:3 mg/kg)

L = Ceftibuten:Compound 2, 1:1 (1 mg/kg:1 mg/kg)

M = Amoxicillin:Clavulanate, 2:1 (300 mg/kg:150 mg/kg)

N = Amoxicillin:Clavulanate, 2:1 (100 mg/kg:50 mg/kg)

O = Amoxicillin:Clavulanate, 2:1 (30 mg/kg:15 mg/kg)

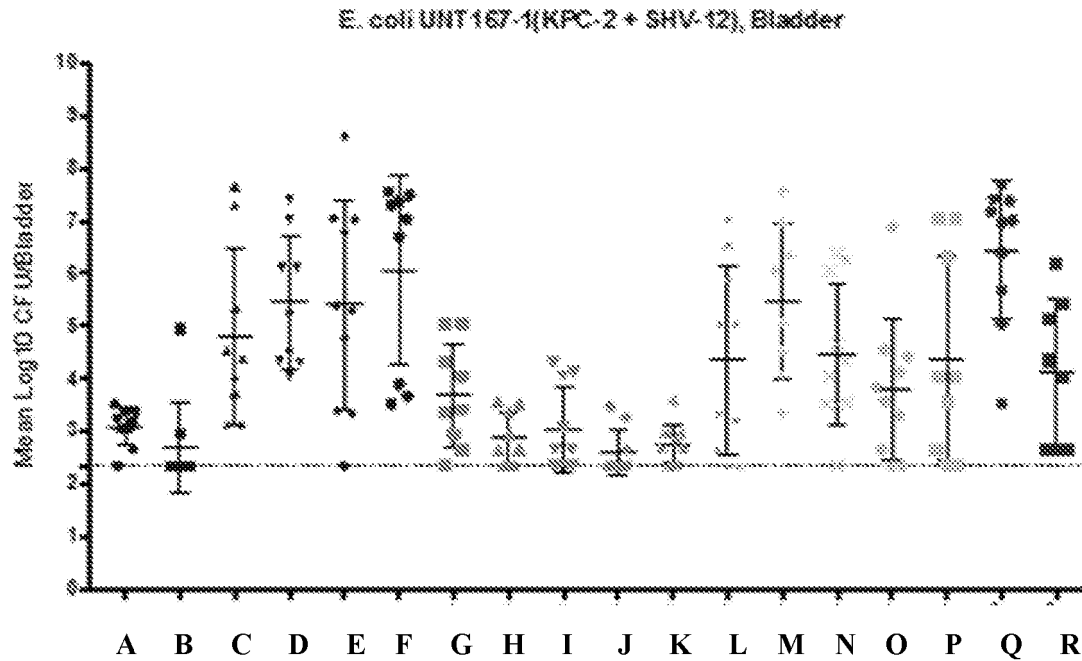
P = Amoxicillin:Clavulanate, 2:1 (10 mg/kg:5 mg/kg)

Q = 7 day control

R = 4 day control

11/17

FIG. 6C



A = Ceftibuten – 300 mg/kg

B = Ceftibuten – 100 mg/kg

C = Ceftibuten – 30 mg/kg

D = Ceftibuten – 10 mg/kg

E = Ceftibuten – 3 mg/kg

F = Ceftibuten – 1 mg/kg

G = Ceftibuten:Compound 2, 1:1 (300 mg/kg:300 mg/kg)

H = Ceftibuten:Compound 2, 1:1 (100 mg/kg:100 mg/kg)

I = Ceftibuten:Compound 2, 1:1 (30 mg/kg:30 mg/kg)

J = Ceftibuten:Compound 2, 1:1 (10 mg/kg:10 mg/kg)

K = Ceftibuten:Compound 2, 1:1 (3 mg/kg:3 mg/kg)

L = Ceftibuten:Compound 2, 1:1 (1 mg/kg:1 mg/kg)

M = Amoxicillin:Clavulanate, 2:1 (300 mg/kg:150 mg/kg)

N = Amoxicillin:Clavulanate, 2:1 (100 mg/kg:50 mg/kg)

O = Amoxicillin:Clavulanate, 2:1 (30 mg/kg:15 mg/kg)

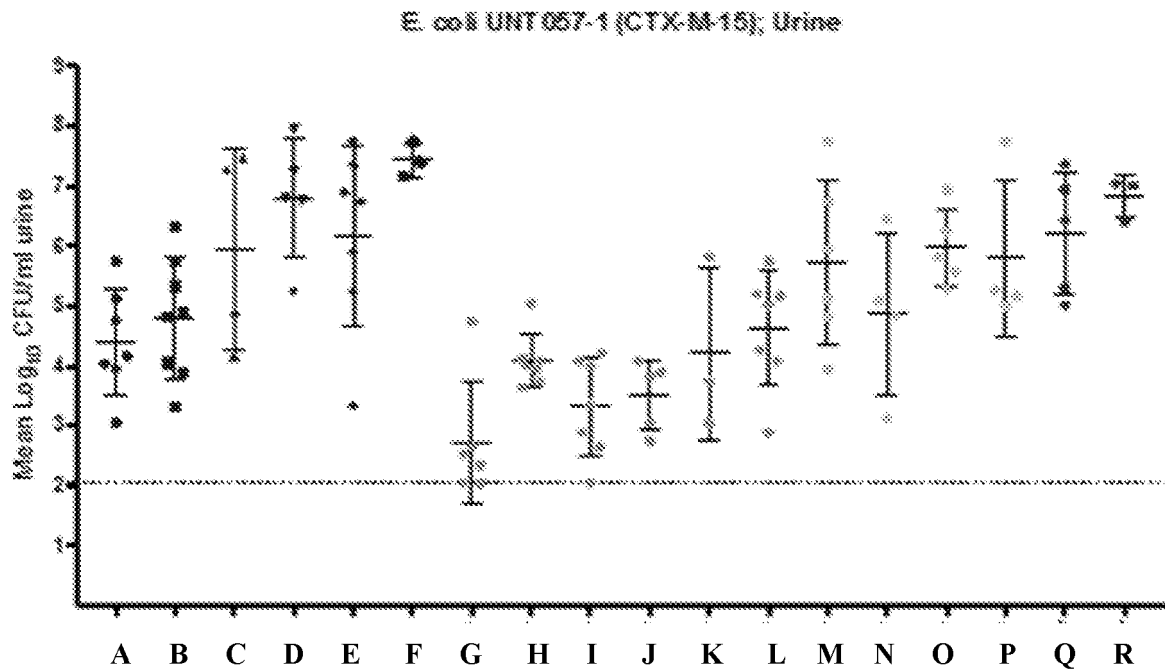
P = Amoxicillin:Clavulanate, 2:1 (10 mg/kg:5 mg/kg)

Q = 7 day control

R = 4 day control

12/17

FIG. 7A



A = Ceftibuten – 300 mg/kg

B = Ceftibuten – 100 mg/kg

C = Ceftibuten – 30 mg/kg

D = Ceftibuten – 10 mg/kg

E = Ceftibuten – 3 mg/kg

F = Ceftibuten – 1 mg/kg

G = Ceftibuten:Compound 2, 1:1 (300 mg/kg:300 mg/kg)

H = Ceftibuten:Compound 2, 1:1 (100 mg/kg:100 mg/kg)

I = Ceftibuten:Compound 2, 1:1 (30 mg/kg:30 mg/kg)

J = Ceftibuten:Compound 2, 1:1 (10 mg/kg:10 mg/kg)

K = Ceftibuten:Compound 2, 1:1 (3 mg/kg:3 mg/kg)

L = Ceftibuten:Compound 2, 1:1 (1 mg/kg:1 mg/kg)

M = Amoxicillin:Clavulanate, 2:1 (300 mg/kg:150 mg/kg)

N = Amoxicillin:Clavulanate, 2:1 (100 mg/kg:50 mg/kg)

O = Amoxicillin:Clavulanate, 2:1 (30 mg/kg:15 mg/kg)

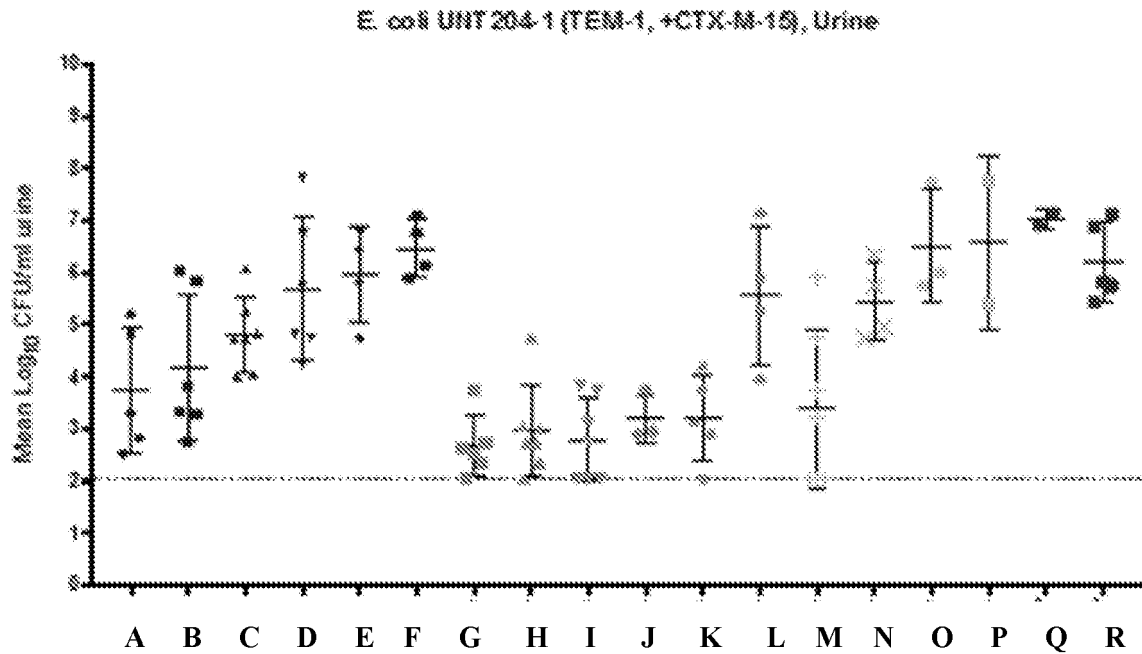
P = Amoxicillin:Clavulanate, 2:1 (10 mg/kg:5 mg/kg)

Q = 7 day control

R = 4 day control

13/17

FIG. 7B



A = Ceftibuten – 300 mg/kg

B = Ceftibuten – 100 mg/kg

C = Ceftibuten – 30 mg/kg

D = Ceftibuten – 10 mg/kg

E = Ceftibuten – 3 mg/kg

F = Ceftibuten – 1 mg/kg

G = Ceftibuten:Compound 2, 1:1 (300 mg/kg:300 mg/kg)

H = Ceftibuten:Compound 2, 1:1 (100 mg/kg:100 mg/kg)

I = Ceftibuten:Compound 2, 1:1 (30 mg/kg:30 mg/kg)

J = Ceftibuten:Compound 2, 1:1 (10 mg/kg:10 mg/kg)

K = Ceftibuten:Compound 2, 1:1 (3 mg/kg:3 mg/kg)

L = Ceftibuten:Compound 2, 1:1 (1 mg/kg:1 mg/kg)

M = Amoxicillin:Clavulanate, 2:1 (300 mg/kg:150 mg/kg)

N = Amoxicillin:Clavulanate, 2:1 (100 mg/kg:50 mg/kg)

O = Amoxicillin:Clavulanate, 2:1 (30 mg/kg:15 mg/kg)

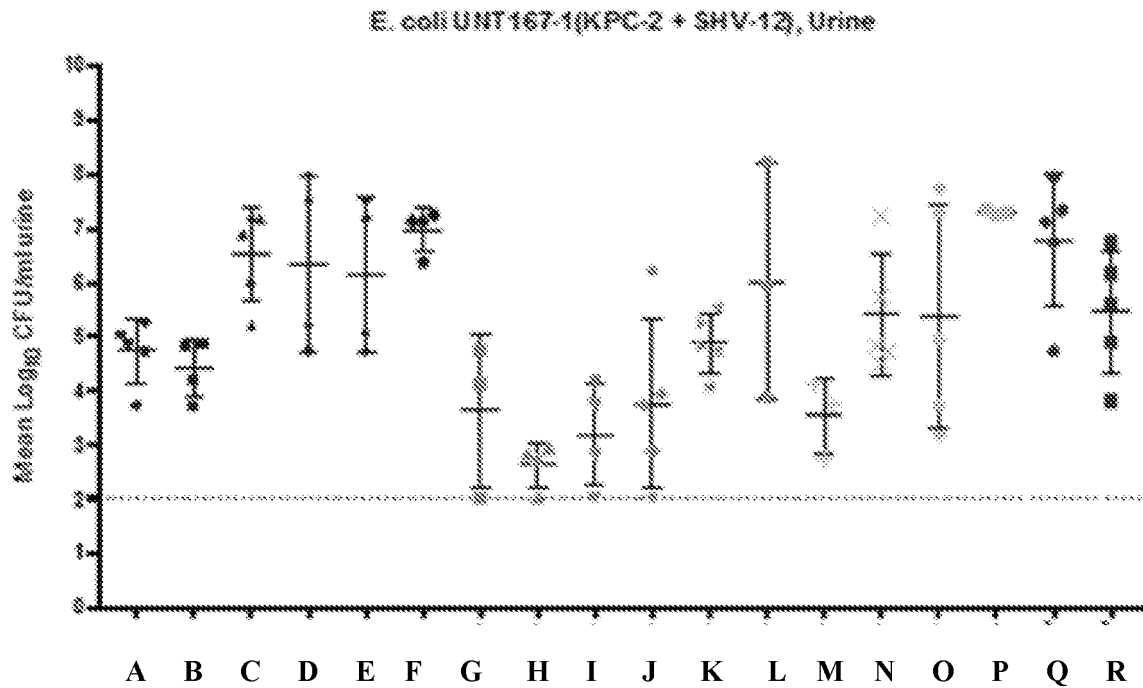
P = Amoxicillin:Clavulanate, 2:1 (10 mg/kg:5 mg/kg)

Q = 7 day control

R = 4 day control

14/17

FIG. 7C



A = Ceftibuten – 300 mg/kg

B = Ceftibuten – 100 mg/kg

C = Ceftibuten – 30 mg/kg

D = Ceftibuten – 10 mg/kg

E = Ceftibuten – 3 mg/kg

F = Ceftibuten – 1 mg/kg

G = Ceftibuten:Compound 2, 1:1 (300 mg/kg:300 mg/kg)

H = Ceftibuten:Compound 2, 1:1 (100 mg/kg:100 mg/kg)

I = Ceftibuten:Compound 2, 1:1 (30 mg/kg:30 mg/kg)

J = Ceftibuten:Compound 2, 1:1 (10 mg/kg:10 mg/kg)

K = Ceftibuten:Compound 2, 1:1 (3 mg/kg:3 mg/kg)

L = Ceftibuten:Compound 2, 1:1 (1 mg/kg:1 mg/kg)

M = Amoxicillin:Clavulanate, 2:1 (300 mg/kg:150 mg/kg)

N = Amoxicillin:Clavulanate, 2:1 (100 mg/kg:50 mg/kg)

O = Amoxicillin:Clavulanate, 2:1 (30 mg/kg:15 mg/kg)

P = Amoxicillin:Clavulanate, 2:1 (10 mg/kg:5 mg/kg)

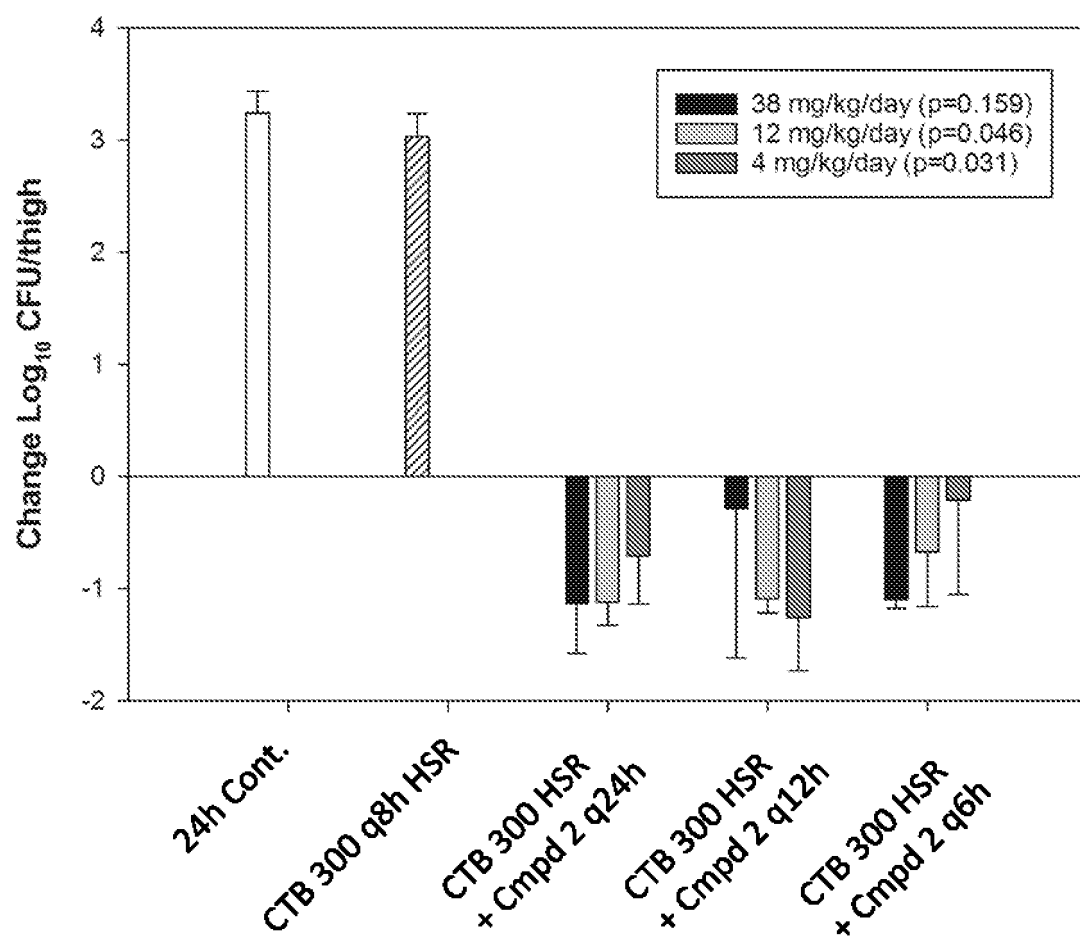
Q = 7 day control

R = 4 day control

15/17

FIG. 8

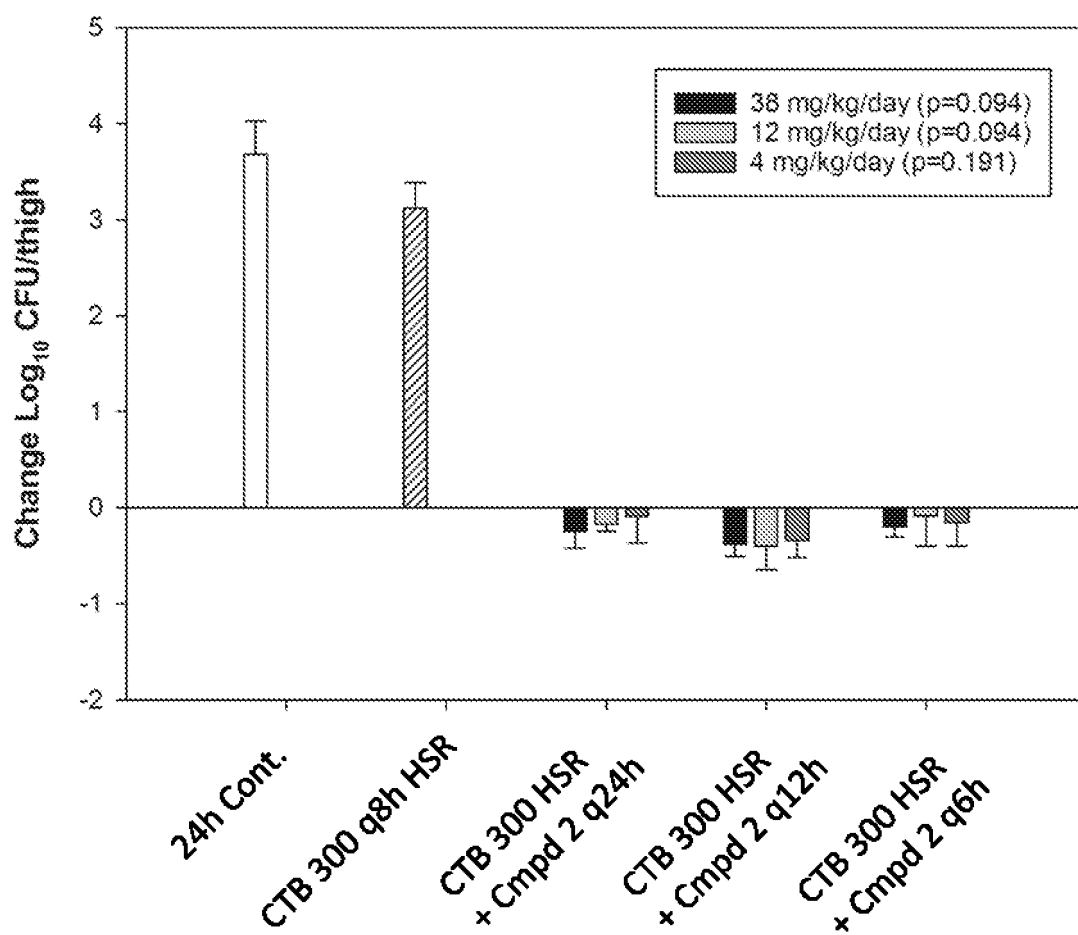
EC 617



16/17

FIG. 9

EC C11-23



17/17

FIG. 10

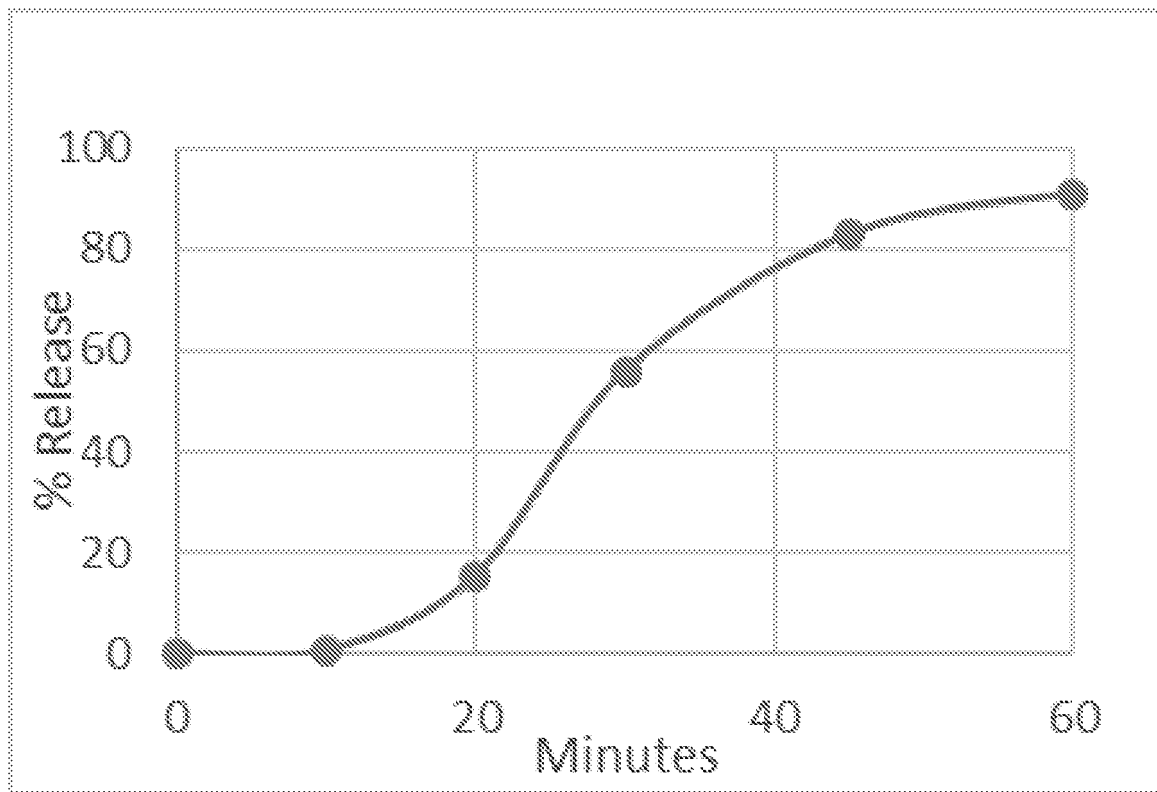


FIG. 11

