

Supplementary Table 1. Comparison of NG-Test CTX-M MULTI and NG-Test Carba 5 results with reference results

Sample number	Organism Identification by MALDI-TOF	NG-Test CTX-M Multi Results	NG-Test Carba 5 Results	BD Phoenix 100 ESBL Results	BD Phoenix 100 CPO Detect Results	Easyplex SuperBug CRE Results	Cepheid Carba-R PCR Results
Isolates (1-32) were spiked in BD BACTEC bottles to verify the performance of NG-Test CTX-M Multi							
1.	<i>Salmonella typhi</i>	Positive	ND	Positive	Negative	Positive	ND
2.	<i>Salmonella typhi</i>	Positive	ND	Positive	Negative	Positive	ND
3.	<i>Escherichia coli</i>	Positive	ND	Positive	Negative	Positive	ND
4.	<i>Escherichia coli</i>	Positive	ND	Positive	Negative	Positive	ND
5.	<i>Escherichia coli</i>	Positive	ND	Positive	Negative	Positive	ND
6.	<i>Escherichia coli</i>	Positive	ND	Positive	Negative	Positive	ND
7.	<i>Escherichia coli</i>	Positive	ND	Positive	Negative	Positive	ND
8.	<i>Escherichia coli</i>	Positive	ND	Positive	Negative	ND	ND
9.	<i>Escherichia coli</i>	Positive	ND	Positive	Negative	ND	ND
10.	<i>Escherichia coli</i>	Positive	ND	Positive	Negative	ND	ND
11.	<i>Escherichia coli</i>	Positive	ND	Positive	Negative	ND	ND
12.	<i>Escherichia coli</i>	Positive	ND	Positive	Negative	ND	ND
13.	<i>Klebsiella pneumoniae</i>	Positive	ND	Positive	Negative	Positive	ND
14.	<i>Klebsiella pneumoniae</i>	Positive	ND	Positive	Negative	Positive	ND
15.	<i>Klebsiella pneumoniae</i>	Positive	ND	Positive	Negative	Positive	ND
16.	<i>Klebsiella pneumoniae</i>	Positive	ND	Positive	Negative	Positive	ND
17.	<i>Klebsiella pneumoniae</i>	Positive	ND	Positive	Negative	Positive	ND
18.	<i>Klebsiella pneumoniae</i>	Positive	ND	Positive	Negative	ND	ND
19.	<i>Klebsiella pneumoniae</i>	Positive	ND	Positive	Negative	ND	ND
20.	<i>Klebsiella pneumoniae</i>	Positive	ND	Positive	Negative	ND	ND
21.	<i>Serratia marcescens</i>	Negative	ND	Negative	Negative	ND	ND
22.	<i>Serratia marcescens</i>	Negative	ND	Negative	Negative	ND	ND

23.	<i>Serratia marcescens</i>	Negative	ND	Negative	Negative	ND	ND
24.	<i>Enterobacter cloacae</i>	Negative	ND	Negative	Negative	ND	ND
25.	<i>Escherichia coli</i>	Negative	ND	Negative	Negative	Negative	ND
26.	<i>Escherichia coli</i>	Negative	ND	Negative	Negative	Negative	ND
27.	<i>Escherichia coli</i>	Negative	ND	Negative	Negative	Negative	ND
28.	<i>Klebsiella pneumoniae</i>	Negative	ND	Negative	Negative	Negative	ND
29.	<i>Klebsiella pneumoniae</i>	Negative	ND	Negative	Negative	Negative	ND
30.	<i>Klebsiella pneumoniae</i>	Negative	ND	Negative	Negative	Negative	ND
31.	<i>Klebsiella pneumoniae</i>	Negative	ND	Negative	Negative	Negative	ND
32.	<i>Klebsiella pneumoniae</i>	Negative	ND	Negative	Negative	ND	ND

Isolates (33-65) were spiked in BD BACTEC bottles to verify the performance of NG-Test Carba 5

33.	<i>Escherichia coli</i>	ND	Positive OXA-48-like	Negative	Class D CPO	ND	Positive OXA-48-like
34.	<i>Escherichia coli</i>	ND	Positive OXA-48-like	Negative	Class D CPO	ND	Positive OXA-48-like
35.	<i>Escherichia coli</i>	ND	Positive NDM-like	Negative	Class B CPO	ND	Positive NDM-like
36.	<i>Escherichia coli</i>	ND	Positive NDM-like	Negative	Class B CPO	ND	Positive NDM-like
37.	<i>Escherichia coli</i>	ND	Positive NDM-like	Negative	Class B CPO	ND	Positive NDM-like
38.	<i>Escherichia coli</i>	ND	Positive NDM-like	Negative	Class B CPO	ND	Positive NDM-like
39.	<i>Escherichia coli</i>	ND	Positive IMP-like	Negative	Class B CPO	ND	Positive IMP-like
40.	<i>Escherichia coli</i>	ND	Positive IMP-like and VIM1-like	Negative	Class B CPO	ND	Positive IMP-like and VIM1-like
41.	<i>Klebsiella pneumoniae</i>	ND	Positive KPC-like	Negative	Class A CPO	ND	Positive KPC-like
42.	<i>Klebsiella pneumoniae</i>	ND	Positive VIM1-like	Negative	Class B CPO	ND	Positive VIM1-like
43.	<i>Klebsiella pneumoniae</i>	ND	Positive OXA-48-like and NDM-like	Negative	CPO Producer	ND	Positive OXA-48-like and NDM-like
44.	<i>Klebsiella pneumoniae</i>	ND	Positive OXA-48-like and NDM-like	Negative	CPO Producer	ND	Positive OXA-48-like and NDM-like
45.	<i>Klebsiella pneumoniae</i>	ND	Positive OXA-48-like and NDM-like	Negative	CPO Producer	ND	Positive OXA-48-like and NDM-like

46.	<i>Klebsiella pneumoniae</i>	ND	Positive OXA-48-like	Negative	Class D CPO	ND	Positive OXA-48-like
47.	<i>Klebsiella pneumoniae</i>	ND	Positive OXA-48-like	Negative	Class D CPO	ND	Positive OXA-48-like
48.	<i>Klebsiella pneumoniae</i>	ND	Positive NDM-like	Negative	Class B CPO	ND	Positive NDM-like
49.	<i>Klebsiella pneumoniae</i>	ND	Positive IMP-like and VIM1-like	Negative	Class B CPO	ND	Positive IMP-like and VIM1-like
50.	<i>Klebsiella pneumoniae</i>	ND	Negative	Negative	Negative	ND	Negative
51.	<i>Klebsiella pneumoniae</i>	ND	Negative	Negative	Negative	ND	Negative
52.	<i>Klebsiella pneumoniae</i>	ND	Negative	Negative	Negative	ND	Negative
53.	<i>Klebsiella pneumoniae</i>	ND	Negative	Negative	Negative	ND	Negative
54.	<i>Klebsiella pneumoniae</i>	ND	Negative	Negative	Negative	ND	Negative
55.	<i>Escherichia coli</i>	ND	Negative	Positive	Negative	ND	Negative
56.	<i>Escherichia coli</i>	ND	Negative	Positive	Negative	ND	Negative
57.	<i>Escherichia coli</i>	ND	Negative	Negative	Negative	ND	Negative
58.	<i>Escherichia coli</i>	ND	Negative	Negative	Negative	ND	Negative
59.	<i>Escherichia coli</i>	ND	Negative	Negative	Negative	ND	Negative
60.	<i>Escherichia coli</i>	ND	Negative	Negative	Negative	ND	Negative
61.	<i>Escherichia coli</i>	ND	Negative	Negative	Negative	ND	Negative
62.	<i>Serratia marcescens</i>	ND	Negative	Negative	Negative	ND	Negative
63.	<i>Serratia marcescens</i>	ND	Negative	Negative	Negative	ND	Negative
64.	<i>Serratia marcescens</i>	ND	Negative	Negative	Negative	ND	Negative
65.	<i>Enterobacter cloacae</i>	ND	Negative	Negative	Negative	ND	Negative

Isolates (66-114) are positive blood culture that were tested prospectively with both NG CTX-M Multi test and Carba 5 test

66.	<i>Escherichia coli</i>	Positive	Negative	Positive	Negative	ND	ND
67.	<i>Escherichia coli</i>	Positive	Negative	Positive	Negative	ND	ND
68.	<i>Escherichia coli</i>	Negative	Positive OXA-48-like	Negative	Class D CPO	ND	ND
69.	<i>Escherichia coli</i>	Negative	Positive NDM-like	Negative	Class B CPO	ND	ND

70.	<i>Escherichia coli</i>	Negative	Negative	Negative	Negative	ND	ND
71.	<i>Escherichia coli</i>	Negative	Negative	Negative	Negative	ND	ND
72.	<i>Escherichia coli</i>	Negative	Negative	Negative	Negative	ND	ND
73.	<i>Escherichia coli</i>	Negative	Negative	Negative	Negative	ND	ND
74.	<i>Escherichia coli</i>	Negative	Negative	Negative	Negative	ND	ND
75.	<i>Escherichia coli</i>	Negative	Negative	Negative	Negative	ND	ND
76.	<i>Escherichia coli</i>	Negative	Negative	Negative	Negative	ND	ND
77.	<i>Escherichia coli</i>	Negative	Negative	Negative	Negative	ND	ND
78.	<i>Klebsiella pneumoniae</i>	Positive	Negative	Negative*	Negative	ND	ND
79.	<i>Klebsiella pneumoniae</i>	Positive	Negative	Negative*	Negative	ND	ND
80.	<i>Klebsiella pneumoniae</i>	Positive	Negative	Positive	Negative	ND	ND
81.	<i>Klebsiella pneumoniae</i>	Negative	Negative	Negative	Negative	ND	ND
82.	<i>Klebsiella pneumoniae</i>	Negative	Negative	Negative	Negative	ND	ND
83.	<i>Klebsiella pneumoniae</i>	Negative	Negative	Negative	Negative	ND	ND
84.	<i>Klebsiella pneumoniae</i>	Negative	Negative	Negative	Negative	ND	ND
85.	<i>Klebsiella pneumoniae</i>	Negative	Negative	Negative	Negative	ND	ND
86.	<i>Klebsiella pneumoniae</i>	Negative	Negative	Negative	Negative	ND	ND
87.	<i>Klebsiella pneumoniae</i>	Negative	Negative	Negative	Negative	ND	ND
88.	<i>Klebsiella pneumoniae</i>	Negative	Negative	Negative	Negative	ND	ND
89.	<i>Klebsiella pneumoniae</i>	Negative	Negative	Negative	Negative	ND	ND
90.	<i>Klebsiella pneumoniae</i>	Negative	Negative	Negative	Negative	ND	ND
91.	<i>Klebsiella pneumoniae</i>	Negative	Negative	Negative	Negative	ND	ND
92.	<i>Klebsiella pneumoniae</i>	Negative	Negative	Negative	Negative	ND	ND
93.	<i>Klebsiella pneumoniae</i>	Negative	Negative	Negative	Negative	ND	ND
94.	<i>Klebsiella pneumoniae</i>	Negative	Negative	Negative	Negative	ND	ND
95.	<i>Klebsiella pneumoniae</i>	Negative	Negative	Negative	Negative	ND	ND
96.	<i>Klebsiella pneumoniae</i>	Negative	Negative	Negative	Negative	ND	ND

97.	<i>Klebsiella pneumoniae</i>	Negative	Negative	Negative	Negative	ND	ND
98.	<i>Klebsiella pneumoniae</i>	Negative	Negative	Negative	Negative	ND	ND
99.	<i>Klebsiella oxytoca</i>	Negative	Negative	Negative	Negative	ND	ND
100.	<i>Klebsiella variicola</i> .	Negative	Negative	Negative	Negative	ND	ND
101.	<i>Enterobacter cloacae</i>	Positive	Negative	Negative*	Negative	ND	ND
102.	<i>Enterobacter cloacae</i>	Negative	Negative	Negative	Negative	ND	ND
103.	<i>Enterobacter cloacae</i>	Negative	Negative	Negative	Negative	ND	ND
104.	<i>Enterobacter cloacae</i>	Negative	Negative	Negative	Negative	ND	ND
105.	<i>Enterobacter cloacae</i>	Negative	Negative	Negative	Negative	ND	ND
106.	<i>Enterobacter cloacae</i>	Negative	Negative	Negative	Negative	ND	ND
107.	<i>Serratia marcescens</i>	Negative	Negative	Negative	Negative	ND	ND
108.	<i>Serratia marcescens</i>	Negative	Negative	Negative	Negative	ND	ND
109.	<i>Serratia marcescens</i>	Negative	Negative	Negative	Negative	ND	ND
110.	<i>Serratia marcescens</i>	Negative	Negative	Negative	Negative	ND	ND
111.	<i>Serratia marcescens</i>	Negative	Negative	Negative	Negative	ND	ND
112.	<i>Serratia marcescens</i>	Negative	Negative	Negative	Negative	ND	ND
113.	<i>Salmonella spp. not typhi</i>	Negative	Negative	Negative	Negative	ND	ND
114.	<i>Proteus mirabilis</i>	Negative	Negative	Negative	Negative	ND	ND

ND = Not Done

*Flagged as possible ESBLs by BDxpert, Confirmed by manual susceptibility method as an ESBL producer

Inoculum source is pellet from positive blood cultures for NG-Test CTX-M and NG-Test Carba 5

Inoculum source is isolated colonies from culture for BD Phoenix tests and Cepheid Carba-R PCR

Inoculum source is aliquot from the positive blood cultures for Easyplex SuperBug CRE Result