

## SUPPLEMENTARY TABLES

**Table A1.** Summary of number of organisms isolated from CHROMagar™ ESBL that were susceptible to both ceftazidime and ceftriaxone when evaluated by automated susceptibility testing using the VITEK-2 system.

MALDI-TOF-MS species identification	Total No. (%)	No. isolates with CHROMagar™ ESBL colony color (%)	
		Metallic blue	Dark pink/red
<i>Citrobacter</i> spp.	61 (63.5)	49	12
<i>Klebsiella pneumoniae</i>	10 (10.4)	9	1
<i>Escherichia coli</i>	9 (9.4)	1	8
<i>Enterobacter cloacae</i>	4 (4.2)	3	1
<i>Kluyvera</i> spp.	6 (6.3)	6	-
GNB	3 (3.1)	3	-
<i>Pseudomonas aeruginosa</i>	1 (1.0)	1	-
<i>Acinetobacter baumannii</i>	1 (1.0)	1	-
GPC	1 (1.0)	1	-
<b>TOTAL</b>	<b>96 (100)</b>	<b>74 (77.1)</b>	<b>22 (22.9)</b>

Abbreviations: ESBL, extended-spectrum beta-lactamases; MALDI-TOF-MS, matrix-assisted laser desorption ionization-time of flight- mass spectrometry.

**Table A2.** Inconsistencies between CHROMagar ESBL colony morphology and VITEK-MALDI-TOF identification

	<b>CHROMagar</b>			
<b>Participants</b>	<b>Colony morphology</b>	<b>Prospective ID.</b>	<b>VITEK-MALDI-TOF</b>	<b>No.</b>
Participant-01	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	<b>1</b>
Participant-02	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	<b>2</b>
Participant-03	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	<b>3</b>
Participant-04	Pink colonies	<i>E. coli</i>	<i>Klebsiella pneumoniae</i>	<b>4</b>
	Dark blue colonies	KEC species	<i>Klebsiella pneumoniae</i>	
Participant-05	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	<b>5</b>
Participant-06	Pink colonies	<i>E. coli</i>	<i>Citrobacter freundii</i>	<b>6</b>
	Dark blue colonies	KEC species	<i>Citrobacter sedlakii</i>	
Participant-07	Pink colonies	<i>E. coli</i>	<i>Citrobacter sedlakii</i>	<b>7</b>
	Dark blue colonies	KEC species	<i>Citrobacter sedlakii</i>	
Participant-08	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	<b>8</b>
Participant-09	Pink colonies	<i>E. coli</i>	<i>Citrobacter sedlakii</i>	<b>9</b>
	Dark blue colonies-type 1	KEC species	<i>Klebsiella pneumoniae</i>	
	Dark blue colonies-type 2	KEC species	<i>Citrobacter sedlakii</i>	
Participant-10	Pink colonies-type 1	<i>E. coli</i> -01	<i>Escherichia coli</i>	
	Pink colonies-type 2	<i>E. coli</i> -02	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	<b>10</b>
Participant-11	Pink colonies	<i>E. coli</i>	<i>Klebsiella pneumoniae</i>	<b>11</b>
	Dark blue colonies	KEC species	<i>Klebsiella pneumoniae</i>	
Participant-12	Pink colonies	<i>E. coli</i>	<i>Klebsiella pneumoniae</i>	<b>12</b>
	Dark blue colonies	KEC species	<i>Klebsiella pneumoniae</i>	
Participant-13	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	<b>13</b>
Participant-14	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	<b>14</b>
Participant-15	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	Ox- GNR	<b>15</b>
Participant-16	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	<b>16</b>
Participant-17	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	<b>17</b>
Participant-18	Pink colonies	<i>E. coli</i>	<i>Enterobacter cloacae</i>	<b>18</b>
	Dark blue colonies	KEC species	<i>Enterobacter cloacae</i>	
Participant-19	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	<b>19</b>

Participant-20	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Green colonies	KEC.green-01	<i>Escherichia coli</i>	20
Participant-21	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	21
Participant-22	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	22
Participant-23	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	23
Participant-24	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	24
Participant-25	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	25
Participant-26	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	26
Participant-27	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	27
Participant-28	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	28
Participant-29	Pink colonies	<i>E. coli</i>	<i>Enterobacter cloacae</i>	29
	Dark blue colonies	KEC species	<i>Kluyvera cryocrescens</i>	30
	GREEN colonies	KEC.green-02	<i>Enterobacter cloacae</i>	
Participant-30	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Kluyvera cryocrescens</i>	31
Participant-31	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	GREEN colonies	Kleb.green-01	<i>Escherichia coli</i>	32
Participant-32	Pink colonies	<i>E. coli</i>	<i>Citrobacter sedlakii</i>	33
	Dark blue colonies	KEC species	<i>Citrobacter sedlakii</i>	
Participant-33	Pink colonies	<i>E. coli</i>	<i>Klebsiella pneumoniae</i>	34
	Dark blue colonies	KEC species	<i>Klebsiella pneumoniae</i>	
Participant-34	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	35
Participant-35	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	36
Participant-36	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	37
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	
Participant-37	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	38
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	
Participant-38	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	39
Participant-39	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	40
Participant-40	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Proteus mirabilis</i>	41
Participant-41	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	42

Participant-42	Pink colonies	<i>E. coli</i>	<i>Citrobacter sedlakii</i>	<b>43</b>
	Dark blue colonies	KEC species	<i>Citrobacter amalonaticus</i>	
Participant-43	Dark blue colonies	KEC species	<i>Aeromonas caviae</i>	<b>44</b>
	Blue colonies	KEC species	<i>Citrobacter sedlakii/koseri</i>	
Participant-44	Pink colonies	<i>E. coli</i>	<i>Citrobacter werkmanii</i>	<b>45</b>
	Dark blue colonies	KEC species	<i>Citrobacter sedlakii</i>	
Participant-45	Pink colonies	<i>E. coli</i>	<i>Citrobacter sedlakii</i>	<b>46</b>
	Dark blue colonies	KEC species	<i>Klebsiella pneumoniae</i>	
Participant-46	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	<b>47</b>
Participant-47	Dark blue colonies-large	KEC species	<i>Escherichia coli</i>	<b>48</b>
	Dark blue colonies-small	KEC species	Gram+ cocci	<b>49</b>
Participant-48	Dark blue colonies-large	KEC species	<i>Klebsiella pneumoniae</i>	
	Dark blue colonies-small	KEC species	Ox- GNR	<b>50</b>
Participant-49	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	<b>51</b>
Participant-50	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	<b>52</b>
Participant-51	Pink colonies	<i>E. coli</i>	<i>Proteus mirabilis</i>	<b>53</b>
	Dark blue colonies	KEC species	<i>Proteus mirabilis</i>	<b>54</b>
Participant-52	Pink colonies	<i>E. coli</i>	<i>Enterobacter cloacae</i>	
	Dark blue colonies	KEC species	<i>Enterobacter cloacae complex</i>	<b>55</b>
Participant-53	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	<b>56</b>
Participant-54	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	<b>57</b>
Participant-55	Pink colonies	<i>E. coli</i>	<i>Citrobacter braakii</i>	<b>58</b>
	Dark blue colonies	KEC species	<i>Citrobacter freundii</i>	
	Green colonies	KEC.green-02	<i>Citrobacter braakii</i>	
Participant-56	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	
	Dark blue colonies	KEC species	<i>Escherichia coli</i>	<b>59</b>



10	Pink colonies- 1	<i>E. coli</i> -1	<i>Escherichia coli</i>	R	S	S	R	S	S	S	S	S	S	I	I	R	R	Same
	Pink colonies- 2	<i>E.coli</i> -2	<i>Escherichia coli</i>	R	S	S	R	S	S	S	S	S	S	I	I	R	R	Same
	Dark blue colonies	KEC spp.	<i>Escherichia coli</i>	R	S	I	R	R	S	S	S	S	S	S	I	S	R	Diff
11	Pink colonies	<i>E. coli</i>	<i>Klebsiella pneumoniae</i>	R	S	I	R	I	S	S	S	I	S	S	S	R	R	
	Dark blue colonies	KEC spp.	<i>Klebsiella pneumoniae</i>	R	S	I	R	I	S	S	S	R	S	S	S	R	R	Diff
12	Pink colonies	<i>E. coli</i>	<i>Klebsiella pneumoniae</i>	R	R	R	S	S	S	S	S	S	S	S	I	S	S	Nit-R
	Dark blue colonies	KEC spp.	<i>Klebsiella pneumoniae</i>	R	S	I	R	S	S	S	S	S	S	S	I	S	S	Nit-S
13	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	S	S	R	S	S	S	S	S	S	R	I	S	R	
	Dark blue colonies	KEC spp.	<i>Escherichia coli</i>	R	S	R	R	R	S	S	S	S	S	S	I	R	R	Diff
14	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	S	R	R	R	S	S	S	S	S	S	I	R	R	Nit-S
	Dark blue colonies	KEC spp.	<i>Escherichia coli</i>	R	S	R	R	R	S	S	S	S	R	S	I	S	R	Nit-I
15	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	R	R	R	S	I	S	S	S	S	S	I	R	R	
	Dark blue colonies	KEC spp.	Ox+ GNR	R	S	S	S	S	S	S	S	S	S	S	S	S	S	Diff
16	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	S	S	R	S	S	S	S	S	S	S	I	R	S	
	Dark blue colonies	KEC spp.	<i>Escherichia coli</i>	R	S	I	R	I	S	S	S	R	S	S	S	R	R	Diff
17	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	S	I	R	I	S	S	S	S	S	S	S	R		
	Dark blue colonies	KEC spp.	<i>Escherichia coli</i>	R	S	I	R	S	S	S	S	S	S	S	S	R	R	Diff
18	Pink colonies	<i>E. coli</i>	<i>Enterobacter cloacae</i>	R	R	S	I	S	S	S	S	S	S	S	S	S		
	Dark blue colonies	KEC spp.	<i>Enterobacter cloacae</i>	R	R	S	I	S	S	S	S	S	S	S	S	S	S	Same
19	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	S	R	R	I	S	S	S	S	S	S	S	R	S	
	Dark blue colonies	KEC spp.	<i>Escherichia coli</i>	R	S	R	R	I	S	S	S	S	S	S	S	R	S	Same
20	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	S	R	R	R	S	S	S	S	S	I	I	R	R	
	Green colonies	KEC. spp	<i>Escherichia coli</i>	R	S	R	R	R	S	S	S	S	S	S	I	R	R	Diff



	Dark blue colonies	KEC spp.	<i>sedlakii</i> <i>Citrobacter sedlakii</i>	R	R	S	S	S	S	S	S	S	S	S	S	S	S	Nit-I
33	Pink colonies	<i>E. coli</i>	<i>Klebsiella pneumoniae</i>	R	S	R	R	I	S	S	S	R	I	R	R	S	R	
	Dark blue colonies	KEC spp.	<i>Klebsiella pneumoniae</i>	R	S	R	R	I	S	S	S	R	I	R	I	S	R	Diff
34	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	S	I	R	S	S	S	S	S	S	S	S	R	R	
	Dark blue colonies	KEC spp.	<i>Escherichia coli</i>	R	S	I	R	S	S	S	S	S	S	S	S	R	R	Same
35	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	S	R	R	R	S	S	S	S	S	S	I	R	R	
	Dark blue colonies	KEC spp.	<i>Escherichia coli</i>	R	S	R	R	R	S	S	S	R	S	I	I	I	R	Diff
36	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	S	I	R	I	S	S	S	S	S	R	R	R	S	
	Dark blue colonies	KEC spp.	<i>Escherichia coli</i>	R	S	R	R	S	S	S	S	S	S	R	R	R	S	Diff
37	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	R	R	R	I	S	S	S	S	S	R	I	R	S	
	Dark blue colonies	KEC spp.	<i>Escherichia coli</i>	R	S	R	R	I	S	S	S	S	S	R	I	R	R	Diff
38	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	S	S	R	S	S	S	S	S	S	R	I	S	R	
	Dark blue colonies	KEC spp.	<i>Escherichia coli</i>	R	S	I	R	I	S	S	S	S	S	R	R	R	R	Diff
39	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	S	R	R	I	S	S	S	R	I	R	I	S	R	
	Dark blue colonies	KEC spp.	<i>Escherichia coli</i>	R	S	S	R	I	S	S	S	R	I	R	I	S	R	Diff
40	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	S	R	R	I	S	S	S	S	S	I	S	R	R	
	Dark blue colonies	KEC spp.	<i>Proteus mirabilis</i>	R	S	R	R	R	S	S	S	S	S	S	S	R	S	Diff
41	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	I	R	R	R	S	S	S	S	S	S	S	R	R	
	Dark blue colonies	KEC spp.	<i>Escherichia coli</i>	R	S	R	R	R	S	S	S	R	S	R	R	R	R	Diff
42	Pink colonies	<i>E. coli</i>	<i>Citrobacter sedlakii</i>	R	R	S	S	S	S	S	S	S	S	S	S	S	S	
	Dark blue colonies	KEC spp.	<i>Citrobacter amalonaticus</i>	R	S	S	S	S	S	S	S	S	S	S	S	S	S	Diff
43	Dark blue	KEC spp.	<i>Aeromonas</i>	I	S	R	NA	S	NA	S	S	S	NA	S	S	S	S	



	colonies		<i>caviae</i>															
	Blue colonies	KEC spp.	<i>Citrobacter sedlakii/koseri</i>	R	S	S	S	S	S	S	S	S	S	S	S	S	S	Diff
44	Pink colonies	<i>E. coli</i>	<i>Citrobacter werkmanii</i>	R	R	I	S	S	S	S	S	S	S	S	S	S	S	
	Dark blue colonies	KEC spp.	<i>Citrobacter sedlakii</i>	R	R	S	S	S	S	S	S	S	S	S	S	S	S	Diff
45	Pink colonies	<i>E. coli</i>	<i>Citrobacter sedlakii</i>	R	I	S	S	S	S	S	S	S	S	S	S	S	S	
	Dark blue colonies	KEC spp.	<i>Klebsiella pneumoniae</i>	R	S	S	R	S	S	S	S	S	S	S	R	S	Diff	
46	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	I	I	S	S	S	S	S	S	S	S	R	S		
	Dark blue colonies	KEC spp.	<i>Escherichia coli</i>	R	S	I	R	S	S	S	S	S	S	S	R	R	Diff	
47	Dark blue colonies-large	KEC spp.	<i>Escherichia coli</i>	R	S	R	R	S	S	S	S	S	S	S	R	R		
	Dark blue colonies-small	KEC spp.	Gram+ cocci	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
48	Dark blue colonies-large	KEC spp.	<i>Klebsiella pneumoniae</i>	R	S	R	R	S	S	S	S	S	S	S	R	R		
	Dark blue colonies-small	KEC spp.	Ox- GNR	R	S	S	S	S	S	S	S	S	S	S	S	S	Diff	
49	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	S	I	R	I	S	S	S	S	S	R	R	R	S	Nit-S
	Dark blue colonies	KEC spp.	<i>Escherichia coli</i>	R	S	I	R	I	S	S	S	S	S	R	R	R	S	Nit-I
50	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	S	I	R	S	S	S	S	S	S	S	R	R		
	Dark blue colonies	KEC spp.	<i>Escherichia coli</i>	R	S	I	R	S	S	S	S	S	S	S	R	R	Same	
51	Pink colonies	<i>E. coli</i>	<i>Proteus mirabilis</i>	R	S	R	R	I	S	S	S	S	S	I	R	R		
	Dark blue colonies	KEC spp.	<i>Proteus mirabilis</i>	R	S	R	R	I	S	S	S	S	S	I	R	R	Same	
52	Pink colonies	<i>E. coli</i>	<i>Enterobacter cloacae</i>	R	R	R	R	I	R	S	S	S	S	S	R	R		
	Dark blue colonies	KEC spp.	<i>Enterobacter cloacae complex</i>	R	R	R	R	I	I	S	S	S	S	S	S	S	Diff	
53	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	S	I	R	I	S	S	S	S	S	S	R	R		

	Dark blue colonies	KEC spp.	<i>Escherichia coli</i>	R	S	R	R	S	S	S	S	S	S	S	S	R	R	Diff
54	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	I	R	R	R	S	S	S	S	S	S	S	R	R	
	Dark blue colonies	KEC spp.	<i>Escherichia coli</i>	R	I	R	R	R	S	S	S	S	S	S	S	R	R	Same
55	Pink colonies	<i>E. coli</i>	<i>Citrobacter braakii</i>	R	R	S	S	S	S	S	S	S	S	S	S	R	S	Same
	Dark blue colonies	KEC spp.1	<i>Citrobacter freundii</i>	R	R	S	S	S	S	S	S	S	S	S	S	R	S	Same
	Green colonies	KEC spp.2	<i>Citrobacter braakii</i>	R	R	R	R	I	S	S	S	R	I	R	R	R	R	Diff
56	Pink colonies	<i>E. coli</i>	<i>Escherichia coli</i>	R	S	R	R	R	S	S	S	S	S	I	I	R	R	
	Dark blue colonies	KEC spp.	<i>Escherichia coli</i>	R	R	R	R	R	R	S	S	R	S	R	R	R	R	Diff

KEY:ASP: Antibiotic susceptibility profile; Cefz- Cefazolin; Cefox- Cefoxitin; Ceftaz- Ceftazidime; Ceftri- Ceftriaxone; Cefepi- Cefepime; Erta- Ertapenem; Mero- Meropenem; Amika- Amikacin; Gent- Gentamicin; Tobr- Tobramycin; Cipro- Ciprofloxacin; Levo- Levofloxacin; Tetra- Tetracycline; Co-Tri- Trimethoprim/Sulfamethoxazole; Nit-Nitrofurantoin