

**Table 1** Epidemiological characteristics of *Escherichia coli* strains containing class 1 and class 2 integrons isolated from blood isolates

Strain Name/Code	Antibiotic Resistance Pattern	Isolation Date*	Policlinic or Service	<i>intI</i> -1 Gene	<i>intI</i> -2 Gene	Plasmid (~kbp)/transferable resistance pattern	Integron Class/Amplicon size (~bp)	Gene Cassette Array	Incompatibility Group (Inc)
TEC002	ND	06.01.2014	Emergency Policlinic	+	-		2900	ND	
TEC004	SAM, ATM, CZ, FEP, CES, FOX, CRO, SXT	09.01.2014	Urology Service	-	+		2500	<i>rA1-sat2-aadA1</i>	
TEC005	SAM, ATM, CZ, FEP, CES, FOX, CAZ, CRO, CIP, CN, LEV, SXT	17.01.2014	Internal Medicine Hematology Service	+	-		1800	ND	
TEC006	SAM, ATM, CZ, FEP, CAZ, CRO, CIP, LEV, SXT	23.01.2014	Neonatal Intensive Care Service	+	-		850	<i>dfrA7</i>	
TEC007	SAM, ATM, CZ, CRO, CIP, CN, LEV, SXT	13.02.2014	Neurosurgery Intensive Care Service	+	-		1800	<i>r17-aadA5</i>	
TEC008	SAM, ATM, CZ, FEP, CES, CRO, CIP, CN, TZP, SXT	09.02.2014	Internal Medicine-Hematology Service	+	-	>100 /SAM, ATM, FEP, CRO, CIP, CN, TZP, SXT	1800	<i>r17-aadA5</i>	
TEC010	SAM, SXT	13.02.2014	Internal Medicine-Hematology Service	+	-	>100 /SXT	800	ND	Inc N
TEC012	SAM, ATM, CZ, FEP, CES, FOX, CRO, SXT	25.02.2014	Internal Medicine-Nephrology Service	-	+	>100 SAM, ATM, FEP, CRO, SXT		ND	
TEC014	SAM, CIP, LEV, SXT	01.03.2014	Bone Marrow Transplant Service	+	-	>100 SAM, CIP, SXT	1800	<i>dfr17-aadA5</i>	
TEC015	SAM, ATM, CZ, FEP, CAZ, CRO, CIP, CN, LEV, TZP, SXT	01.03.2014	Bone Marrow Transplant Service	+	-	>100 SAM, ATM, FEP, CAZ, CIP, CN, SXT,	1800	ND	Inc N

<b>TEC020</b>	SAM, ATM, CZ, FEP, CES, CAZ, CRO, CIP, LEV, SXT	15.03.2014	Urology Service	+	-		1800	ND	
<b>TEC021</b>	SAM, ATM, CZ, FEP, CAZ, CRO, CN, SXT	21.03.2014	Pediatrics Emergency Clinic	+	-	>100 SAM, CN, SXT	1800	<i>dfr17-aadA5</i>	
<b>TEC023</b>	SAM, SXT	25.03.2014	Internal Medicine- Nephrology Service	+	-	>100 SXT	800	<i>dfrA7</i>	
<b>TEC025</b>	SXT	03.04.2014	Internal Medicine- Hematology Service	+	-	>100 SXT	1800	<i>dfrA1-aadA1</i>	
<b>TEC026</b>	SAM, ATM, CZ, FEP, FOX, CAZ, CRO, CIP, CN, LEV, SXT	07.04.2014	Internal Medicine- Oncology Service	-	+		2500	<i>rA1-sat2-aadA1</i>	
<b>TEC027</b>	SAM, ATM, CZ, FEP, CES, FOX, CRO, SXT	15.04.2014	Internal Medicine- Endocrine Service	-	+		2500	<i>A1-sat2-aadA30</i>	
<b>TEC029</b>	SXT	10.04.2014	Bone Marrow Transplant Service	+	-		Empty integron		
<b>TEC031</b>	SAM, SXT	10.05.2014	Internal Medicine- Hematology Service	+	-		Empty integron		
<b>TEC033</b>	SAM, CZ, CAZ, CIP, LEV, SXT	11.05.2014	Chest Diseases Intensive Care	-	+			ND	
<b>TEC034</b>	SAM, ATM, CZ, FEP, CES, FOX, CAZ, CRO, CIP, CN, LEV, TZP, SXT	19.05.2014	Internal Medicine- Hematology Service	+	-		1800	<i>dfr17-aadA5</i>	
<b>TEC037</b>	SAM, ATM, CZ, FEP, CAZ, CRO, CN, SXT	23.05.2014	Urology Service	+	-	>100 SXT, CIP	1800	<i>dfr17-aadA5</i>	
<b>TEC038</b>	SAM, CZ, FEP, CS, CRO, SXT	28.05.2014	Thoracic Surgery Service	+	-		Empty integron		

<b>TEC043</b>	SAM, CZ, CRO, CIP, LEV, SXT	19.06.2014	Emergency Polyclinic	+	-			ND	
<b>TEC045</b>	SAM, ATM, CZ, FEP, CES, CAZ, CRO, TZP, SXT	29.06.2014	Internal Medicine- Hematology Service	+	-		800	<i>dfrV</i>	
<b>TEC046</b>	CZ, SXT	29.06.2014	Internal Medicine- Hematology Service	+	-		Empty integron		
<b>TEC054</b>	SAM, ATM, CZ, CAZ, CRO, SXT	17.07.2014	Organ Transplant Unit	+	-		Empty integron		
<b>TEC055</b>	SAM, CZ, FOX, CIP, CN, LEV, SXT	20.07.2014	Internal Diseases Intensive Care Service	+	-			ND	
<b>TEC057</b>	SAM, CZ, FOX, CIP, LEV, SXT	10.08.2014	Internal Medicine- Gastroenterology Service	+	-			ND	
<b>TEC058</b>	SXT	15.08.2014	Internal Medicine- Hematology Service	+	-		Empty integron		
<b>TEC059</b>	SAM, CZ, TZP, SXT	02.08.2014	Ear Nose Throat Service	+	-		Empty integron		
<b>TEC060</b>	SAM, ATM, CZ, FEP, FOX, CAZ, CRO, CIP, LEV, SXT	14.10.2014	Internal Medicine- Gastroenterology Service	+	-		1800	<i>dfr17-aadA5</i>	
<b>TEC062</b>	CN, SXT	31.07.2014	Internal Medicine- Hematology Service	+	-		Empty integron		
<b>TEC064</b>	SAM, ATM, CZ, FEP, CAZ, CRO, CN, SXT	08.08.2014	Internal Medicine- Oncology Service	+	-	>100 SAM, ATM, FEP, CAZ, CN, SXT	1800	<i>dfr17-aadA5</i>	

<b>TEC066</b>	SAM, CZ, TZP, SXT	06.08.2014	Internal Medicine- Hematology Service	+	-		Empty integron		
<b>TEC067</b>	SAM, CZ, CES, TZP, SXT	16.08.2014	Internal Medicine- Nephrology Service	+	-		1800	<i>dfr17-aadA5</i>	
<b>TEC071</b>	SAM, ATM, CZ, FEP, CAZ, CRO, SXT	12.09.2014	Emergency Polyclinic	+	-		800	<i>dfrA7</i>	
<b>TEC072</b>	CN, SXT	12.09.2014	Emergency Polyclinic	+	-			ND	
<b>TEC075</b>	SAM, CZ, CRO, CIP, LEV, TZP, SXT	21.09.2014	Urology Service	+	-	>100 SAM, CIP, SXT	1800	<i>dfr17-aadA5</i>	Inc N
<b>TEC076</b>	SAM, ATM, CZ, FEP, CAZ, CRO, CIP, LEV, TZP, SXT	13.09.2014	Pediatrics Emergency Clinic	+	-	>100 SAM, ATM, FEP, CAZ, CIP, SXT	1800	<i>dfr17-aadA5</i>	
<b>TEC078</b>	SAM, ATM, CZ, FEP, CES, CAZ, CRO, CIP, CN, LEV, TZP, SXT	26.09.2014	Internal Medicine- Hematology Service	+	-			ND	
<b>TEC081</b>	SAM, ATM, CZ, FEP, CES, FOX, CRO, SXT	29.09.2014	Internal Medicine- Immunology Service	-	+	>100 ATM, FEP, CAZ, SXT		ND	
<b>TEC082</b>	SAM, ATM, CZ, CES, FOX, CAZ, CRO, CN, TZP, SXT	28.09.2014	Internal Medicine- Hematology Service	+	-		1800	<i>dfr17-aadA5</i>	
<b>TEC083</b>	SXT	14.10.2014	Internal Medicine- Hematology Service	+	-	>100 SXT	2000	<i>dfrA12-aadA2</i>	

<b>TEC085</b>	SAM, ATM, CZ, FEP, CAZ, CRO, CIP, LEV, SXT	17.10.2014	Internal Medicine-Oncology Service	+	-	>100 SAM, ATM, FEP, CAZ, CIP, SXT	1800	<i>dfr17-aadA5</i>	
<b>TEC087</b>	SAM, ATM, CZ, FEP, CES, CAZ, CRO, CIP, LEV, TZP, SXT	22.10.2014	Internal Medicine-Hematology Service	+	-		Empty integron		
<b>TEC088</b>	SAM, ATM, CZ, FEP, CES, CAZ, CRO, TZP, SXT	23.10.2014	Urology Service	-	+	>100 SAM, ATM, FEP, CAZ SXT	2500	<i>A1-sat2-aadA30</i>	
<b>TEC090</b>	SAM, ATM, CZ, FEP, CAZ, CRO, CIP, LEV, SXT	25.10.2014	Urology Service	+	-	>100 SAM, ATM, FEP, CAZ, CIP, SXT	1800	<i>dfr17-aadA5</i>	
<b>TEC091</b>	CN, SXT	25.10.2014	Emergency Polyclinic	+	-	>100 CN, SXT		ND	
<b>TEC095</b>	SAM, ATM, CZ, FEP, FOX, CAZ, CRO, CIP, CN, LEV, SXT	06.11.2014	General Surgery Service	+	-	>100 SAM, ATM, FEP, FOX, CAZ, CIP, CN, SXT	1800	<i>dfr17-aadA5</i>	
<b>TEC098</b>	SAM, ATM, CZ, FEP, FOX, CAZ, CRO, CIP, LEV	18.11.2014	Emergency	+	-		Empty integron		
<b>TEC104</b>	SAM, ATM, CZ, FEP, CAZ, CRO, SXT	19.12.2014	Internal Medicine-Oncology Service	+	-		800	<i>dfrV</i>	
<b>TEC105</b>	SAM, CZ, CIP, CN, LEV, TZP, SXT	24.12.2014	Bone Marrow Transplant Service	+	-	>100 SAM, CIP, CN, SXT	1800	<i>dfr17-aadA5</i>	
<b>TEC106</b>	SAM, CIP, CN, LEV, SXT	29.12.2014	Internal Medicine-Hematology Service	+	-	>100 CIP, CN, SXT	1800	<i>dfr17-aadA5</i>	
<b>TEC108</b>	SAM, CZ, SXT	01.12.2014	Emergency Polyclinic	+	-	>100 SAM, SXT	800	<i>dfrA7</i>	
<b>TEC110</b>	SAM, ATM, CZ, FEP, CAZ, CRO, CIP, LEV, SXT	26.12.2014	Internal Medicine-Oncology Service	+	-		Empty integron		

<b>TEC112</b>	SAM, ATM, CZ, FEP, CAZ, CRO, SXT	22.12.2014	Internal Medicine- Nephrology Service	+	-		Empty integron		
<b>TEC113</b>	SAM, ATM, CZ, FEP, FOX, CAZ, CRO, CIP, CN, LEV, SXT	05.11.2014	Internal Diseases Intensive Care Service	+	-		1800	<i>dfr17-aadA5</i>	
<b>TEC114</b>	SAM, SXT	30.12.2014	Infectious Diseases Service	+	-		800	<i>dfrA7</i>	

TEC: Trabzon *E. coli*, AK: Amikasin, SAM: Ampisilin/sulbaktam, ATM: Aztreonam, CZ: Sefazolin, FEP: Sefepim, CES: Sefoperazon/sulbaktam, FOX: Sefoksitin, CAZ: Seftazidim, CRO: Seftriakson, CIP: Siprofloksasin, ERT: Ertapenem, CN: Gentamisin, IPM: İmipenem, LEV: Levofloksasin, MEM: Meropenem, TZP: Piperasilin/tazobaktam, SXT: Trimetoprim/sülfametoksazol. ND: Not detected