Richter et al. Prevalence of extended-spectrum β-lactamase producing Enterobacterales in Africa's water-plant-food interface: A Meta-analysis (2010 – 2022)

Supplementary Table 1: Summary of 51 publications in African countries (2010-2022) that focused on the isolation and characterization of antimicrobial resistant Enterobacterales from the environment

Article number	Publication Year	Country	Water	Fresh Produce	Soil	No of Samples	No of Positive samples	% Occurrence	Phenotypic	Genotypic/Molecular methods	Sequencing	Organism Identity	Species detected and characterised to genus and/or species level																																		Reference
													Achromobacter	*Achromobacter xylosoxidans*	*Citrobacter spp.*	*Citrobacter braakii*	*Citrobacter farmeri*	*Citrobacter freundii*	*Enterobacter spp.*	*Enterobacter aerogenes*	*Enterobacter asburiae*	*Enterobacter cloacae*	*Enterobacter cowanni*	*Enterobacter hormaechei*	*Enterobacter ludwigii*	*Escherichia coli*	*E. coli 0157:H7*	*Klebsiella spp.*	*Klebsiella pneumoniae*	*Klebsiella oxytoca*	*Kluyvera ascirbata*	*Morganella morganii*	*Plesiomonas spp.*	*Proteus spp.*	*Proteus mirabilits*	*Providencia spp.*	*Providencia rettgeri*	*Rahnella aquatilis*	*Raoultella ornithinolytica*	*Salmonella spp*	*Serratia spp.*	*Serratia marcesens*	*Serratia fonticola*	*Shigella spp.*	
1	2010	SA	X			18			DST			API													|X|																				*a*
2	2011	NI	X			200	37	18,5	DST	PCR	N	API						X																							X					*b*
3	2012	DC	X					7,4	DST	Microarray		Selective media						X					X							X																	*c*
4	2013	TN	X						MIC	PCR	Y	Phoenix 100 phenotyping								X						X				X							X		X									*d*
5	2014	SA	X	X		44			DST	PCR	Y	Omnilog													|X|																				*e*
6	2015	NI	X	X	X	440	61	13,9	DST	PCR	Y	Biochemical tests																													X					*f*
7	2015	NI	X			228	5	2,2	DST			Biochemical tests													|X|																				*g*
8	2015	SA	X	X					DST	PCR	N	MALDI-ToF													|X|																				*h*
9	2015	BE	X	X		186	65	34,9	DST	PCR	N	Biochemical and morphological tests													|X|																				*i*
10	2015	NI		X		100	96	96	DST			Biochemical Tests			X				X								X		X							X		X					X	X				X	*j*
11	2015	TN	X	X	X	109	10	9,17	DST	PCR	Y	16S PCR						X							X		X			X																	*k*
12	2015	NI	X						DST	PCR	N	PCR													|X|																				*l*
13	2016	SA	X	X		616			DST	PCR	N	MALDI-ToF													|X|																				*m*
14	2016	BE	X	X		186	9	5,9	DST	PCR	N	Biochemical and morphological tests																|X|																	*n*
15	2016	TN	X			57	1	1,75	DST	PCR	Y	Biochemical Tests and PCR						X								X			X																		*o*
16	2017	AL	X	X	X	626		17	DST			MALDI-ToF						X					X						X		X																*p*
17	2017	AL	X			12			DST	PCR	Y	MALDI-ToF				X		X								X			X											X							*q*
18	2017	MR		X		160	144	90	DST	PCR	Y	API													|X|																				*r*
19	2017	MR		X		###	70	28	MIC	PCR	N														|X|																				*s*
20	2018	AL	X		X	185			DST			MALDI-ToF								X			X							X	X		X											X				*t*
21	2019	NI		X		240	25	10,4	DST			API					|X|																												*u*
22	2019	NI		X		54	51	50	DST			API						X								X			X			X				X								X				*v*
23	2019	NI	X		X	122			DST	PCR and WC	Y	MALDI-ToF						X					X							X																	*w*
24	2019	KY			X	100			DST	PCR	Y	Biochemical tests			X				X							X		X																			*x*
25	2019	SA		X		545	95	17,4	DST	PCR	Y	MALDI-ToF		X			X	X			X		X		X	X			X	X	X				X				X	X			X	X		*y*
26	2019	TN	X			17	4	23,5	DST	PCR	N	API			X											X																					*z*
27	2020	NI	X						DST	WGS		16S PCR	X					X	X							X																					*aa*
28	2020	TN		X					DST	PCR	N	API													|X|																				*bb*
29	2020	SA		X		250			DST	PCR	Y	MALDI-ToF													|X|																				*cc*
30	2020	SA	X	X	X	243			DST	PCR	N	PCR									|X|																								*dd*
31	2020	SA	X						DST	PCR	N	MALDI-ToF			X				X							X		X					X	X								X				*ee*
32	2020	TN	X			120	33	27,5	DST	PCR	Y	MALDI-ToF														X			X																		*ff*
33	2020	SA	X		X	96			DST	PCR	N	PCR							X									X													X						*gg*
34	2020	SA	X	X		18			DST	PCR	N	MALDI-ToF			X				X							X		X																			*hh*
35	2020	SA	X			6			DST	PCR	N	Biochemical tests													|X|																				*ii*
36	2020	SA	X		X	416	65	15,6		PCR	N	MALDI-ToF														|X|																			*jj*
37	2020	SA	X		X	416	65	15,6		PCR	N	MALDI-ToF																													X					*kk*
38	2020	SA		X		545	42	14,6	DST	PCR	Y	MALDI-ToF										X				X			X										X		X			X		*ll*
39	2020	AL		X		310	13	4,19	DST	WGS	Y	MALDI-ToF																|X|																	*mm*
40	2021	GH	X			96		98	DST			Indole testing													|X|																				*nn*
41	2021	SA	X			101			VITEC			PCR													|X|																				*oo*
42	2021	SA	X		X	96			DST			PCR													|X|																				*pp*
43	2021	TA	X		X	36	27	75	DST			API														X			X																		*qq*
44	2021	SA	X	X		288	81	14,9	DST	PCR	Y	MALDI-ToF													|X|																				*rr*
45	2022	SA	X	X	X	239	28	11,7	DST			MALDI-ToF													|X|																				*ss*
46	2022	SA	X	X	X	288	65	22,6	DST			MALDI-ToF													|X|																				*tt*
47	2022	SA	X		X	32		86	DST	PCR	N	PCR													|X|																				*uu*
48	2022	SU	X	X		22	13	59,1	DST	WGS	Y	Biochemical Tests														X			X																		*vv*
49	2022	GH		X		25			DST	PCR	N	MALDI-ToF													|X|																				*ww*
50	2022	EG	X	X		120	7	5,83		PCR	N	Biochemical Tests																|X|																	*xx*
51	2022	NI	X			24			DST	PCR		Biochemical Tests			X				X							X		X						X						X	X				*yy*

a;Doughari et al. 2011; *b*;Akinyemi et al. 2011; *c*;De Boeck et al. 2012; *d*;Chouchani et al. 2013;*e*;Njage et al. 2014;*f*;Abakpa et al 2015;*g*;Chigor et al. 2010;*h*;Du Plessis et al. 2015;*i*;Mousse et al., 2015;*j*;Odigie et al. 2015;*k*;Said et al., 2015;*l*;Titilawo et al. 2015;*m*;Jongman et al. 2016;*n*;Mousse et al., 2016;*o*;Said et al. 2016;*p*;Zekar et al., 2017;*q*;Tafoukt et al., 2017;*r*;Nyame et al., 2017;*s*;Nayme et al., 2017;*t*;Djenadi et al. 2018;*u*;Adegun et al. 2019;*v*;Bello et al. 2019;*w*;Le Terrier et al. 2019;*x*;Maina et al. 2019;*y*;Richter et al., 2019;*z*;Hassen et al., 2019;*aa*;Adelowo et al. 2020;*bb*;Badi et al. 2022;*cc*;Baloyi et al. 2020;*dd*;Ebomah et al. ;2020;*ee*;Fadare et al. 2020;*ff*;Hassen et al. 2020;*gg*;Iwu et al., 2020;*hh*;Mpaka et al., 2020;*ii*;Nzima et al. 2020;*jj*;Raseala et al., 2020;*kk*;Raseala et al., 2020;*ll*;Richter et al., 2020;*mm*;Zekar et al., 2020;*nn*;Banu et al. 2021;*oo*;Bolukaoto et al. 2021;*pp*;Iwu et al. 2021;*qq*;Kimera et al. 2021;*rr*;Richter et al. 2021;*ss*;Ratshilingano et al. 2022;*tt*;Richter et al. 2022;*uu*;Iwu et al., 2022;*vv*;Altayb et al., 2022;*ww*;Quarcoo et al., 2022;*xx*;Elshafiee et al., 2022;*yy*;Akinola et al., 2022