

SUPPLEMENTARY MATERIAL

***Vibrio* species in an urban tropical estuary: antimicrobial susceptibility, interaction with environmental parameters and possible public health outcomes**

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1. SUPPLEMENTARY TABLES

Table S1. Primers and cycling conditions used in this study for the detection of beta-lactam resistance genes

Gene	Primer	Sequence	Cycling conditions	Amplicon size (bp)	References
<i>bla</i> _{GES}	mGESF	5'-AGCAGCTCAGATCGGTGTTG-3'	95°C/10' + 30 cycles of 95°C/30'', 54°C/30'', 72°C/45'' and final extension of 72°C/10'	750	[1], [2]
	mGESR	5'-CCGTGCTCAGGATGAGTTG-3'			
<i>bla</i> _{SHV}	mSHVF	5'-CTTGACCGCTGGGAAACGG-3'		200	
	mSHVR	5'-AGCACGGAGCGGATCAACGG-3'			
<i>bla</i> _{TEM}	mTEMF	5'-CCCTTATTCCCTTTYTTGCGG-3'		650	
	mTEMR	5'-AACCAGCCAGCCWGAAGG-3'			
<i>bla</i> _{CTX-M-1,2}	mCTX-1,2F	5'-ATGTGCAGYACCAGTAA-3'		512	
	mCTX-1,2R	5'-CGCTGCCGGTTTTATCSCCC-3'			
<i>bla</i> _{CTX-M-8}	mCTX-8F	5'-AACRCRCAGACGCTCTAC-3'		333	
	mCTX-8R	5'-TCGAGCCGGAASGTGTYAT-3'			
<i>bla</i> _{CTX-M-14}	mCTX-14F	5'-GGTGACAAAGAGARTGCAACGGAT-3'		876	
	mCTX-14R	5'-TTACAGCCCTTCGGCGATGA-3'			

Table S2. Primers and cycling conditions used in this study for the detection of heavy metal resistance genes

Gene	Primer	Sequence	Cycling conditions	Amplicon size (bp)	References
<i>merA</i>	merA-F	5'-GTGCCGTCCAAGATCATGAT-3'	94°C/4' + 30 cycles of 94°C/1', 57°C/1', 72°C/1' and final extension of 72°C/8'	933	[3]
	merA-R	5'-TAGCCYACRGTSAGCSACYTG-3'			
	A1F	5'-ACCATCGGCGGCACCTGCGT-3'	95°C/5' + 35 cycles of 95°C/1', 63°C/1', 72°C/1' and final extension of 72°C/10'	1226	[4]
	A5R	5'-ACCATCGTCAGGTAGGGGACCAA-3'			
<i>cusB</i>	czcB-I	5'-ATGAAAAAATCGCGCTT-3'	94°C/5' + 35 cycles of 94°C/30", 47°C/45", 72°C/1' and final extension of 72°C/10'	1200	[5]
	czcB-II	5'-ATGCGCATGGGTAGCACT-3'			
<i>copA</i>	cad1	5'-CAAAYTGYGCRGGAARTTYGA-3'	94°C/5' + 30 cycles of 94°C/1', 47°C/45", 72°C/1' and final extension of 72°C/5'	1058	[6]
	cad2	5'-AACTAATGCACAAGGACA-3'			
<i>pbrA</i>	pbrA-N	5'-ATGAGCGAATGTGGCTCGAAG-3'	96°C/5' + 39 cycles of 96°C/1', 58°C/1', 72°C/ and final extension of 72°C/10'	2400	[7]
	pbrA-C	5'-TCATCGACGCAACAGCCTCAA-3'			

*H = A or C or T; Y = C or T; R = A or G; W = A or T.

Table S3. Primer and cycling conditions used in this study for the amplification of virulence genes in *V. parahaemolyticus* strains

Gene	Primer	Sequence	Cycling conditions	Amplicon size (bp)	References
<i>tdh</i>	<i>tdh</i> -F	5'-CCAAATACATTTTACTTGG-3'	94°C/5' + 30 cycles of 94°C/1', 55°C/45'', 72°C/45'' and final extension of 72°C/7'	251	[8]
	<i>tdh</i> -R	5'-GGTACTAAATGGCTGACATC-3'			
<i>trh</i>	<i>trh</i> -F	5'-GGCTCAAAATGGTTAAGCG-3'	94°C/5' + 35 cycles of 94°C/1', 55°C/1', 72°C/1' and final extension of 72°C/7'	250	[9]
	<i>trh</i> -R	5'-CATTTCCGCTCTCATA TGC-3'			
<i>toxR</i>	<i>toxR</i> -F	5'-GTCTTCTGACGCAATCGTTG-3'	94°C/5' + 35 cycles of 94°C/1', 63°C/1', 72°C/30'' and final extension of 72°C/7'	368	[9]
	<i>toxR</i> -R	5'-ATACGAGTGGTTGCTGTCATG-3'			

2. REFERENCES

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