

Table S2. Controls used to validate the assays.

List of whole genome sequenced strains	List of strains used as positive controls for specific genes (genes)	List of plasmids used as positive controls for specific genes (target)
19383	15F1211 (<i>mcr-3</i>)	pCMY-3 (<i>bla_{CMY-3}</i>)
26307	E. coli 30 Holland (<i>bla_{TEM-1B}</i>)	pFIBpQIL (<i>IncFIB</i>)
27838	E. coli 24 Holland (<i>bla_{TEM-1F}</i>)	pFIB-pLF82pHCM2 (<i>IncFIB</i>)
30457	S. Virchow 58.67 Holland (<i>bla_{TEM-1b}</i> , <i>bla_{CTX-M-2}</i> , <i>bla_{SHV}</i>)	pIncHI1B-Mar (<i>IncHI1B</i>)
33777	TZ116 (<i>bla_{VIM-1}</i> , <i>bla_{CMY-13}</i>)	pIncN-2 (<i>IncN-2</i>)
34511	S. concordiae05-5343 (<i>bla_{CTX-M-15}</i> , <i>qnrA</i>)	pISAb24 (<i>ISAb24</i>)
34978	59-45 Holland (<i>bla_{CTX-M-3}</i>)	pISEc33 (<i>ISEc33</i>)
36493	15Q004074 (<i>mcr-4</i>)	pISKpn26 (<i>ISKpn26</i>)
37007	09CEB904SAL (<i>bla_{CMY-2}</i> , <i>intI1</i> , <i>bla_{TEM}</i> , <i>armA</i> , <i>bla_{CTX-M-1group}</i>)	pISKpn14 (<i>ISKpn14</i>)
38947	Virchow Vagtel 7522438-1 (<i>bla_{CTX-M-9}</i>)	pISKpn19 (<i>ISKpn19</i>)
41711	PYO pERO (<i>bla_{PER-1}</i>)	pISKpn27 (<i>ISKpn27</i>)
41726	S. Newport 03-3225 (08CEB3400SAL) (<i>bla_{CMY}</i> , <i>IncA/C2</i>)	pintI3 (<i>intI3</i>)
44091	04CEB8118SAL (<i>bla_{CTX-M-53}</i>)	pHI1A (<i>IncHI1A</i>)
46558	DAK2 (<i>bla_{SHV-12}</i>)	pIncFIB-Mar (<i>IncFIB</i>)
46814	Kp37 (<i>mcr-2</i>)	pFIBS (<i>IncFIB</i>)
46839	RD29 (<i>mphA</i> , <i>bla_{TEM}</i> , <i>bla_{KPC}</i>)	
46877	15F2357 (<i>mcr-3</i>)	
46886	KPC-2 (<i>bla_{KPC-2}</i>)	
46969	Transkonj (<i>bla_{CMY-1}</i>)	
47107	DH10B MSC234 (<i>bla_{OXA-48}</i>)	
47303	CTX-M-8 (GIS) (<i>bla_{CTX-M-8}</i>)	
47323	E11 (<i>bla_{CTX-M-8}</i>)	
47384	E68 (<i>bla_{CTX-M-8}</i>)	
10CEB2598SAL	pMUR050 (<i>aadA2</i> , <i>armA</i> , <i>aph(3')-Ia</i> , <i>sul1</i> , <i>intI1</i>)	
10CEB2956SAL		

10CEB8748SAL 12CEB117SAL 12CEB2196SAL 12CEB3121SAL 12CEB432SAL 12CEB4337SAL 12CEB4367SAL 12CEB707SAL 1697-O26 16-B3PA-006 1746-O26 1886-O26 2D7 2K7 3383-O103 382-O145 97HMPL915 BEN2200 CB12450 CB12669 CB13483 CB13938 CB15046 CHI-004 E5 G8 L168 NV34 RDP19 RSA-005		
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