

Supplementary file 1

Table S1: List of primers utilized for the amplification of various genes in *K. pneumoniae*.

The table includes primers for detecting capsular serotypes, virulence factors, antibiotic resistance genes, and transport system genes.

Gene	Sequence	Annealing	Amplicon size	References
K1	F- 5'-GGTGCTCTTTACATCATTGC-3'	60°C	1283	(10) Compain et al., 2014
	R- 5'-GCAATGGCCATTTGCGTTAG-3'			
K2	F- 5'-CAACCATGGTGGTCGATTAG-3'		531	
	R- 5'-TGGTAGCCATATCCCTTTGG-3'			
ybtS	F- 5-GACGGAAACAGCACGGTAAA-3'	60°C	242	(10) Compain et al., 2014
	R- 5'-GAGCATAATAAGGCGAAAGA-3'			
entB	F- 5' -GTCAACTGGGCCTTTGAGCCGTC-3'		400	
	R- 5' -TATGGGCGTAAACGCCGGTGAT-3'			
iutA	F- 5'-GGGAAAGGCTTCTCTGCCAT-3'		920	
	R- 5'-TTATTCGCCACCACGCTCTT-3'			
kfu	F- 5'-GGCCTTTGTCCAGAGCTACG-3'		638	
	R- 5'-GGGTCTGGCGCAGAGTATGC-3'			
rmpA	F- 5'-CTTGCATGAGCCATCTTTCA-3'		461	
	R- 5'-CATAAGAGTATTGGTTGACAG-3'			
mrkD	F- 5'-AAGCTATC.GCTGTACTTCCGGCA-3'		340	
	R- 5'-GGCGTTGGCGCTCAGATAGG-3'			
allS	F- 5'-CATTACGCACCTTTGTCAGC		764	
	R- 5' -GAATGTGTCGGCGATCAGCTT-3'			
blaTEM	F- 5'-TTTCGTGTCGCCCTTATTCC-3'	60°C	404	(10) Compain et al., 2014
	R- 5'-ATCGTTGTCAGAAGTAAGTTGG-3'			
blaSHV	F- 5'-CGCCTGTGTATTATCTCCCT-3'	58°C	294	
	R- 5'-CGAGTAGTCCACCAGATCCT-3'			
blaCTX-M	F- 5'-CGCTGTTGTTAGGAAGTGTG-3'	57°C	754	
	R- 5'-GGCTGGGTGAAGTAAGTGAC-3'			
blaOXA-48	F- 5'-GCGTGGTTAAGGATGAACAC-3'	58°C	438	
	R- 5'-CATCAAGTTCAACCCAACCG-3'			
blaKPC	F- 5'-CGTCTAGTTCTGCTGTCTTG-3'	56°C	798	
	R- 5'-CITGTCATCCTTGTTAGGCG-3'			
blaNDM	F- 5'-GGITfGGCGATCTGGTTTTTC-3'	55°C	621	
	R- 5'-CGGAATGGCTCATCACGATC-3'			

AcrAB	F- 5'-ATCAGCGGCCGGATTGGTAAA-3'	53°C	312	(17) Wasfi et al., 2016
	R- 5'-CGGGTTCGGGAAAATAGCGCG-3'			
tolC	F- 5'-ATCAGCAACCCCGATCTGCGT-3'	51°C	527	
	R- 5'-CCGGTGACTTGACGCAGTCCT-3'			
mdtK	F- 5'-GCGCTTAACTTCAGCTCA-3'	43°C	453	
	R- 5'-GATGATAAATCCACACCAGAA-3'			
OmpK35	F- 5'-CTCCAGCTCTAACCGTAGCG-3'	51°C	241	
	R- 5'-GGTCTGTACGTAGCCGATGG-3'			
OmpK36	F- 5'-GAAATTTATAACAAAGACGGC-3'	43°C	305	
	R- 5'-GACGTTACGTCTGATACTACG-3'			
mcr1	F- 5'-AGTCCGTTTGTTCCTTGTTGGC-3'	58°C	320	(17) Wasfi et al., 2016
	R- 5'-AGATCCTTGGTCTCGGCTTG-3'			
mcr2	F- 5'-CAAGTGTGTTGGTCGCAGTT-3'		715	
	R- 5'-TCTAGCCCGACAAGCATACC-3'			
mcr3	F- 5'-AAATAAAAATTGTTCCGCTTATG-3'		929	
	R- 5'-AATGGAGATCCCCGTTTTT-3'			
mcr4	F- 5'-TCACTTTCATCACTGCGTTG-3'		1116	
	R- 5'-TTGGTCCATGACTACCAATG-3'			
mcr5	F- 5'-ATGCGGTTGTCTGCATTTATC-3'		1644	
	R- 5'-TCATTGTGGTTGTCCTTTTCTG-3'			
mcr6	F- 5'-GTCCGGTCAATCCCTATCTGT-3'	55°C	556	(18) Hou et al., 2018
	R- 5'-ATCACGGGATTGACATAGCTAC-3'			
mcr7	F- 5'-TGCTCAAGCCCTTCTTTTCGT-3'		892	(18) Hou et al., 2018
	R- 5'-TTCATCTGCGCCACCTCGT-3'			
mcr8	F- 5'-AACCGCCAGAGCACAGAATT-3'	60°C	667	(18) Hou et al., 2018
	R- 5'-TTCCCCCAGCGATTCTCCAT-3'			