

Supplementary Materials

Table S1: Primers sequences used for PCR

PRIMERS	SEQUENCES	GENES	SIZES [REFERENCES]
OXA-51 for OXA-51 rev	TAATGCTTTGATCGGCCTTG TGGATTGCACTTCATCTTGG	blaOXA-51	353bp [1]
AdeB for AdeB rev	TTAACGATAGCGTTGTAACC TGAGCAGACAATGGAATAGT	AdeB	541bp [2]
AdeR for AdeR rev	ACTACGATATTGGCGACATT GCGTCAGATTAAGCAAGATT	AdeR	447bp [2]
AdeS for AdeS rev	TTGGTTAGCCACTGTTATCT AGTGGACGTTAGGTCAAGTT	AdeS	544bp [2]
MCR for MCR rev	CGGTCAGTCCGTTTGTTTC CTTGGTCGGTCTGTAGGG	mcr-1	309bp [3]

Table S2: Thermocycling condition used in the study

TARGETED GENES	THERMOCYCLING CONDITION	POSITIVE CONTROL
<i>bla_{OXA-51}</i>	94 °C for 4 min 35 X $\begin{cases} 94\text{ °C for 30 sec} \\ 50\text{ °C for 30 sec} \\ 72\text{ °C for 1 min} \end{cases}$ 72 °C for 90 sec	<i>A. baumannii</i> ATCC® BAA-1605™ strain <i>K. pneumoniae</i> ATCC 8303 [Klebsiella pneumoniae carbapenemase (KPC) positive control]
<i>adeS</i> <i>adeR</i>	94 °C for 5 min 30 X $\begin{cases} 94\text{ °C for 1 min} \\ 57\text{ °C for 1 min} \\ 72\text{ °C for 1 min} \end{cases}$ 72 °C for 5 min	<i>K. pneumoniae</i> ATCC BAA-2146 [New Delhi metallo-β-lactamase (NDM) positive control]
<i>adeB</i>	94 °C for 5 min 30 X $\begin{cases} 94\text{ °C for 1 min} \\ 57\text{ °C for 1 min} \\ 72\text{ °C for 1 min} \end{cases}$ 72 °C for 5 min	
	RT-PCR	
<i>mcr-1</i>	95 °C for 5 min 35 X $\begin{cases} 95\text{ °C for 30s} \\ 61.2\text{ °C for 40s} \\ 72\text{ °C for 40s} \end{cases}$ 70 °C for 10 min	N/A

*min: Minute (s)

*sec: Second (s)

*N/A: Not applicable

REFERENCES

- 1 Kock MM, Bellomo AN, Storm N, Ehlers MM. Prevalence of carbapenem resistance genes in *Acinetobacter baumannii* isolated from clinical specimens obtained from an academic hospital in South Africa. *Southern African Journal of Epidemiology and Infection*. 2013 Jan 1;28(1):28-32. <https://doi.org/10.1080/10158782.2013.11441516>
- 2 Beheshti M, Talebi M, Ardebili A, Bahador A, Lari AR. Detection of AdeABC efflux pump genes in tetracycline-resistant *Acinetobacter baumannii* isolates from burn and ventilator-associated pneumonia patients. *Journal of pharmacy & bioallied sciences*. 2014 Oct;6(4):229. doi: 10.4103/0975-7406.142949
- 3 Hazrat B, Fareeha H, Muhammad KA, Sabir K, Xingyuan Y, Tayyab RU. Detection of mcr-1 gene in extended-spectrum β -lactamase-producing *Klebsiella pneumoniae* from human urine samples in Pakistan. *Jundishapur Journal of Microbiology*. 2020; 13(4), pp. 1–6. doi: 10.5812/jjm.96646.