

Supplementary materials for the article:

Ghorbanian F. et al. *In Vivo* Efficacy of *Bacillus velezensis* Isolated from Korean Gochang Bokbunja Vinegar against Carbapenem-Resistant *Klebsiella pneumoniae* Infections. Pol J Microbiol. 2022, Vol. 71, No 4, 553–562

Table SI
Primer pairs used in this study.

Primer specific for-	Oligo name	Primer sequence (5'-3')
<i>Bacillus velezensis</i>	Bvel-F	CCTTTGCGTTTTGTTACCC
	Bvel-R	CACATCAATTCCTTCTCC
<i>Bacillus subtilis</i>	ytCP-F	GCTTACGGGTTATCCCGC
	ytCP-R	CCGACCCCATTCAGACATATC
<i>Bacillus amyloliquefaciens</i>	spBamyphes171	TCTCGTCGTSGACCGCAA
	spBamyphes353	GATCCAGCCTGTTTTTTTGC
<i>Bacillus licheniformis</i>	Blich-f	AKACGGAAGTGACGGGAAC
	Blich-r	AGAAACTTTTCRAGCGCTT
acrolactin	Mln-f	CTGATGAACTGATAACAACCGAG
	Mln-r	ACGTGCCGAAACAACGATTGG

Table SII
Composition of optimized food-grade medium based on MRS medium.

Compositions	MRS medium (g/l)	Food grade (pH 6.3) (g/l)
Glucose	-	20
Yeast peptone standard type F	-	25
Proteose peptone No. 3	10	-
Beef extract	10	-
Yeast extract	5	-
Dextrose	20	-
Tween 80*	1*	1*
Ammonium citrate/triammonium citrate	2	-
Trisodium citrate	-	-
Sodium acetate	5	-
Sodium acetate 3M	-	-
Magnesium sulfate/MgSO ₄ ·7H ₂ O	0.1	0.2
Manganese (II) sulfate/MnSO ₄ · 5H ₂ O	0.05	-
Dipotassium phosphate	2	-

* g/ml

Table SIII
Clinical signs and mortality of guinea pigs in an acute oral dose toxicity study.

Group	No. of animals	Clinical signs	Days after dosing						
			1	3	5	7	9	10	14
Control	5	Loss weight	0	0	0	0	0	0	0
		Loss of fur	0	0	0	0	0	0	0
		Salivation (after dosing)	0	0	0	0	0	0	0
		Blackish stool	0	0	0	0	0	0	0
		Decrease in fecal volume	0	0	0	0	0	0	0
		Mucous stool	0	0	0	0	0	0	0
		Irregular respiration	0	0	0	0	0	0	0
		Lying on side	0	0	0	0	0	0	0
		Death	0	0	0	0	0	0	0
		No observable abnormality (NOA)	5	5	5	5	5	5	5
<i>Bacillus velezensis</i>	5	Loss weight	0	0	0	0	0	0	0
		Loss of fur	0	0	0	0	0	0	0
		Salivation (after dosing)	0	0	0	0	0	0	0
		Blackish stool	0	0	0	0	0	0	0
		Decrease in fecal volume	0	0	0	0	0	0	0
		Mucous stool	0	0	0	0	0	0	0
		Irregular respiration	0	0	0	0	0	0	0
		Lying on side	0	0	0	0	0	0	0
		Death	0	0	0	0	0	0	0
		No observable abnormality (NOA)	5	5	5	5	5	5	5