

Supplementary materials

Anti-virulence properties of a low-molecular quaternized chitosan derivative against *Pseudomonas aeruginosa*

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Table S1: Primers used in the study

Oligo Name	Sequence (5'-3')	Reference
LasI_For	CGCACATCTGGAACTCA	[30]
LasI_Rev	CGGCACGGATCATCATCT	
RhlI_For	GTAGCGGGTTTGCAGGATG	[30]
RhlI_Rev	CGGCATCAGGTCTTCATCG	
RpoD_For	CGAACTGCTTGCCGACTT	
RpoD_Rev	GCGAGAGCCTCAAGGAATC	[30]

Table S2: Amplification conditions

RhlI		LasI	
95 °C 2'		95 °C 2'	
95°C 15"		95°C 15"	
58 °C 30"	x 40	56 °C 30"	x 40
72 °C 5"		72 °C 5"	

Table S3. MIC values of QAL towards *P. aeruginosa* strains in TSB 20%

Strain	Abbreviation	QAL (mg/ml)	tob (μg/ml)
<i>P. aeruginosa</i> ATCC 27853	Pa ATCC	0.62	1
<i>P. aeruginosa</i> W4	Pa W4	0.62	1
<i>P. aeruginosa</i> CVC02118	Pa C2118	0.31	1
<i>P. aeruginosa</i> BAL0910	Pa B910	0.62	1

tob: tobramicyn

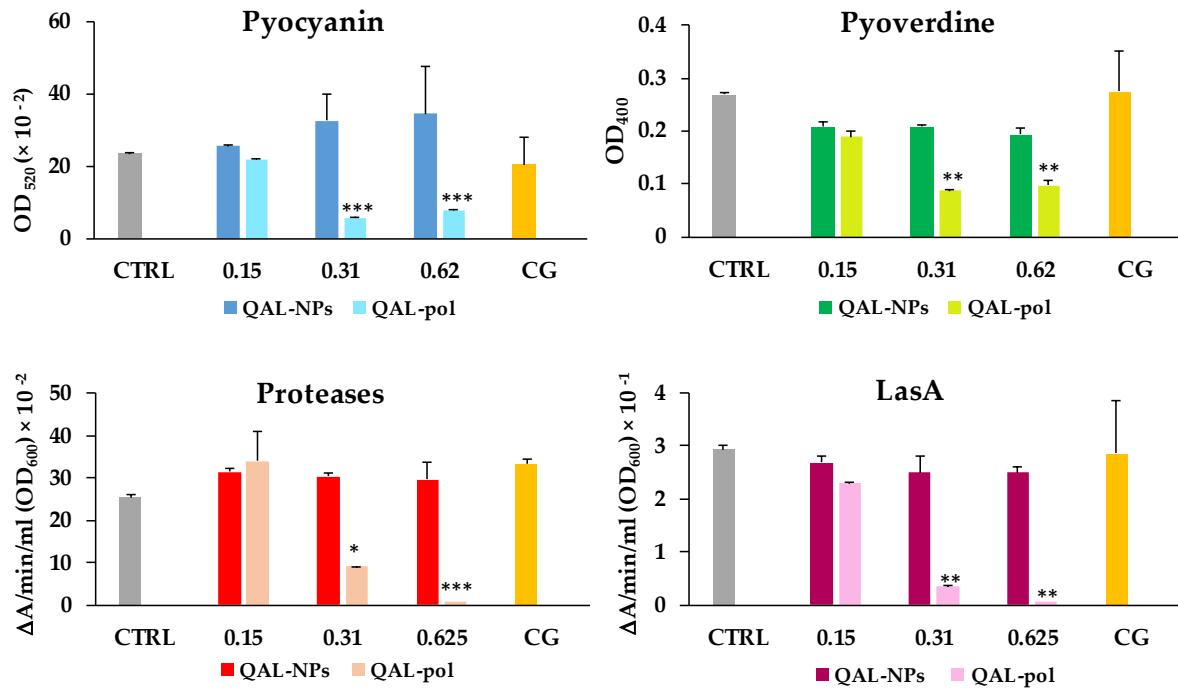


Figure S1: QAL-NPs were assayed for their anti-virulence activity against the *Pa W4* strain. To this aim the strain was incubated at 37°C for 48 h in static conditions with concentrations of QAL-NP corresponding to 0.155, 0.31 and 0.62 mg/mL of QAL. CTRL: bacteria without treatment. CG: carrageenan was tested at the concentration of 0.1 mg/mL corresponding to the concentration of CG present in QAL-NPs equivalent at 0.62 mg/mL of QAL. Results are expressed as the means and error standard of the mean from three independent experiments. (* $p<0.05$; ** $p<0.01$; *** $p<0.001$).