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Supplementary Information

Conjugation of penicillin-G with silver(I) ions expands its antimicrobial activity, against Gram negative bacteria.

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Table S1. % Survival of *Artemia salina* larvae in increasing concentrations of solutions with or without **PenAg** or **PenNa** after 24 hrs

PenAg	
Concentration (μM)	**% Survival**
37.0	94.7±2.5
74.5	87.3±5.0
150.0	82.6±4.7
220.0	63.4±6.1
1050	11.0±5.0

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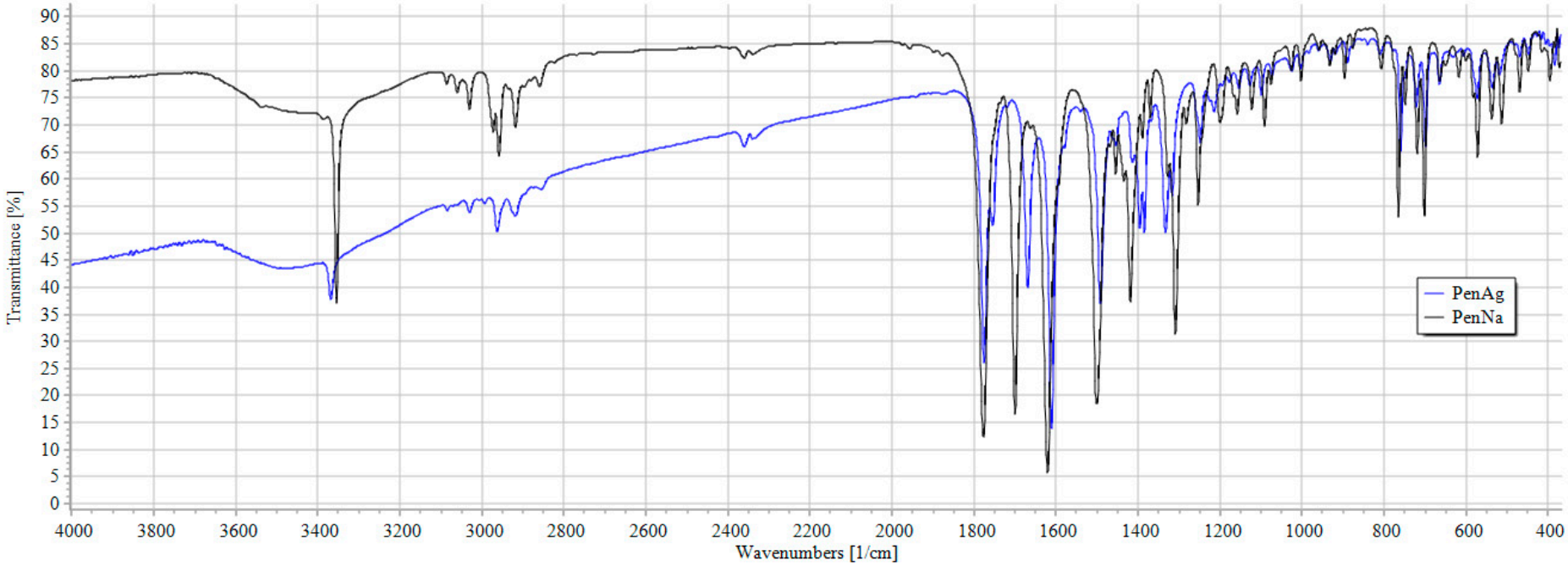

Figure S1. FT-IR spectra of **PenAg** and **PenNa** .

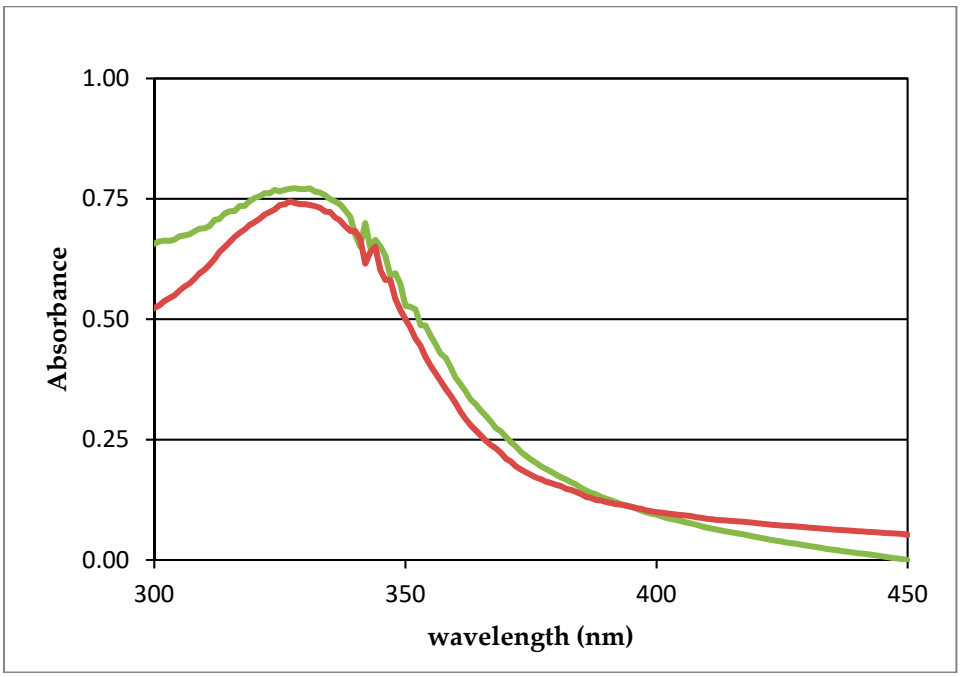

Figure S2. Uv-Vis spectrum of **PenAg** in dd water (5 10^{-4} M) (red) and the corresponding one after 24 hrs (Green).

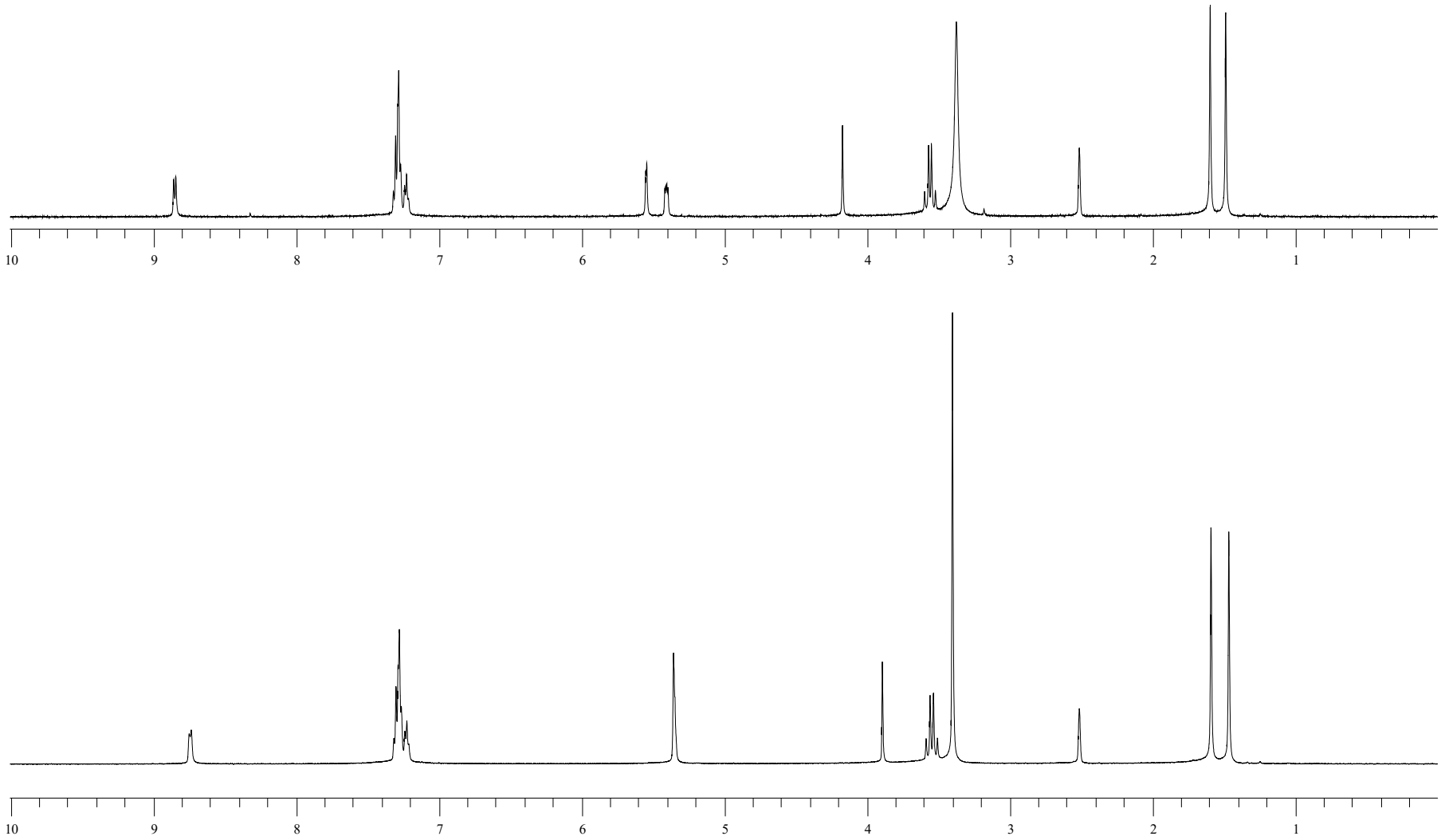

Figure S3. 1H-NMR spectra of **PenAg** (upper) and **PenNa** (down) in DMSO-d_6.

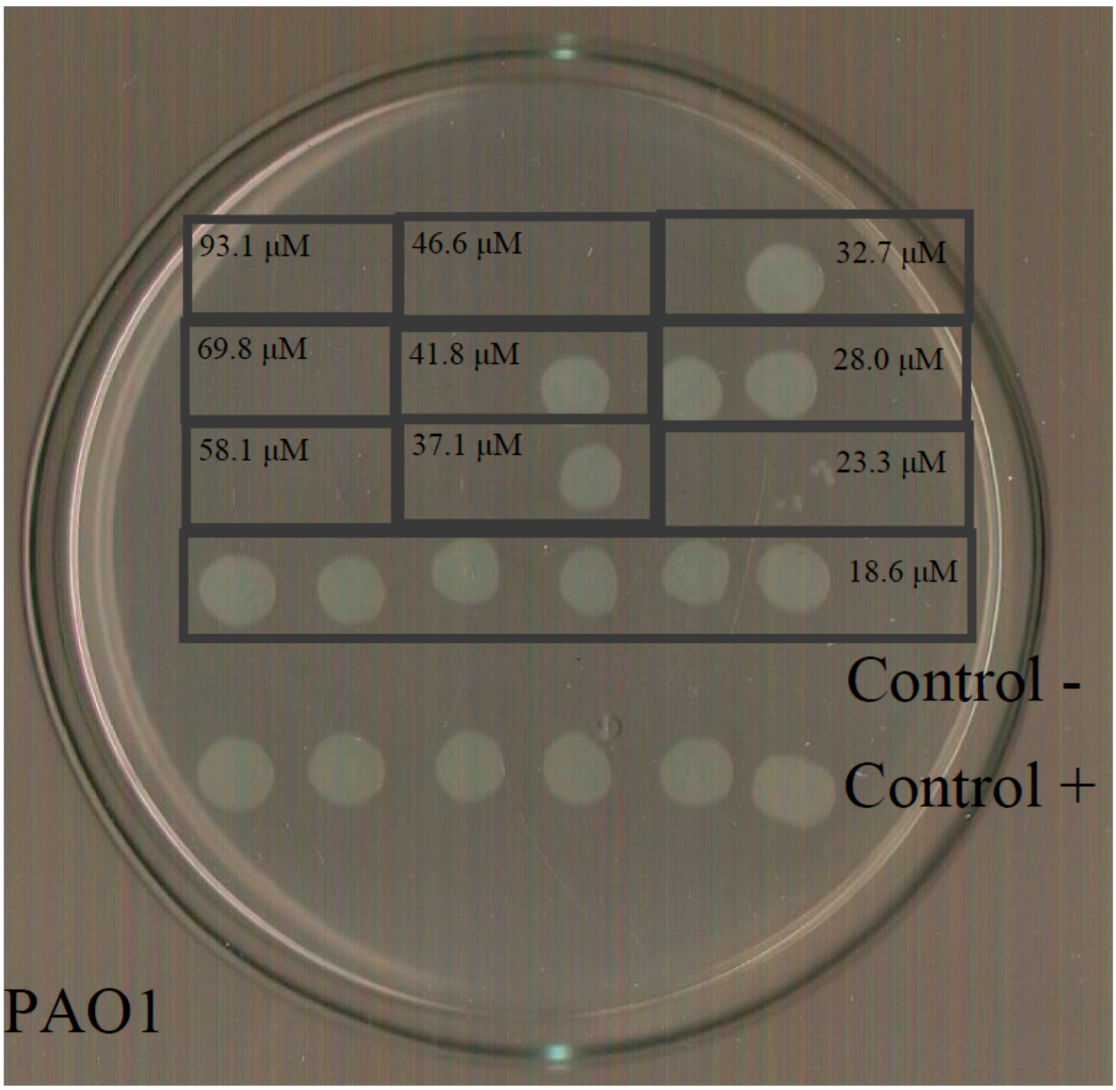

Figure S4. Minimum bactericidal concentration of **PenAg** against *P. auroginoza (PAO1)*.