

Supporting Information

Antimicrobial Efficacy of a Nitric Oxide-Releasing Ampicillin Conjugate Catheter Lock Solution on Clinically-Isolated Antibiotic-Resistant Bacteria

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Supporting Figures

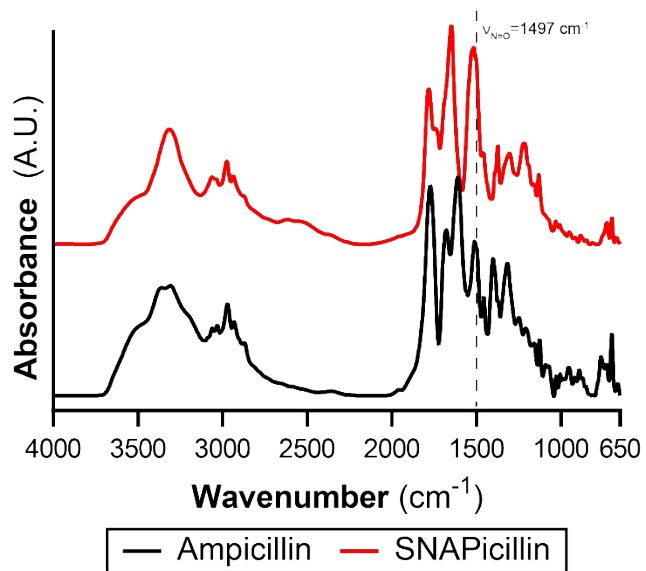


Figure S1. Fourier-transform infrared spectroscopic analysis of as-prepared SNAPicillin compound compared to unmodified ampicillin.

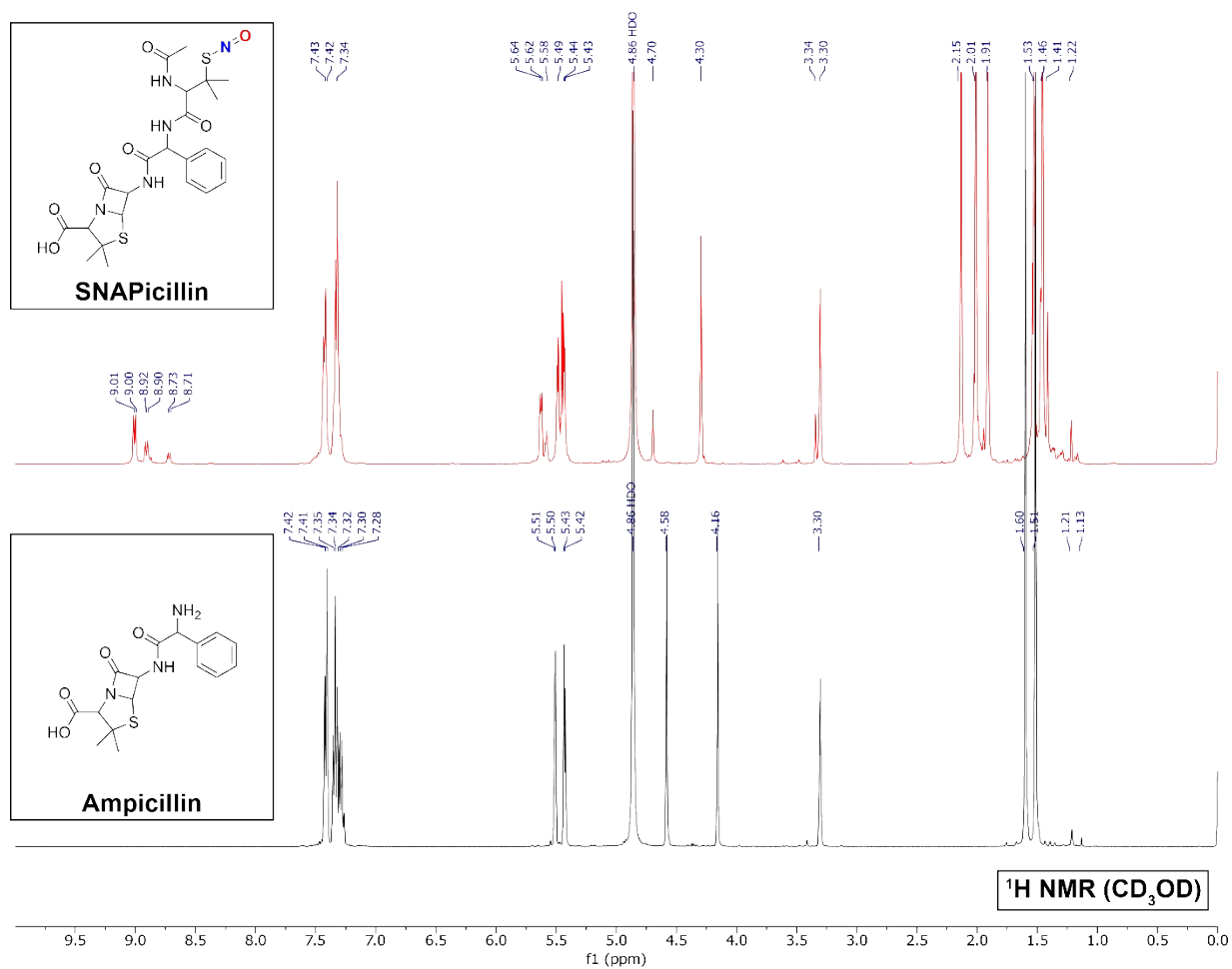


Figure S2. ¹H NMR studies of SNAPicillin compound and unmodified ampicillin.

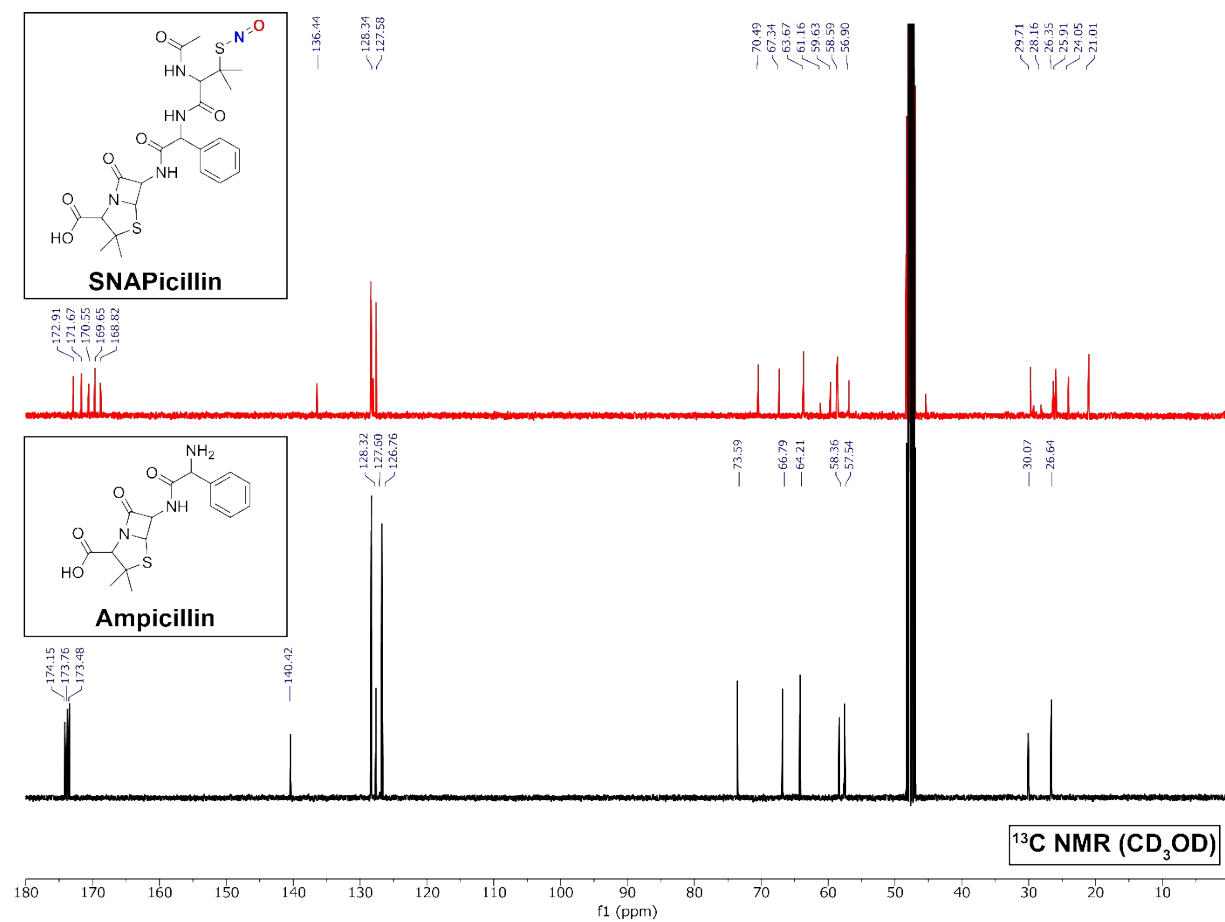


Figure S3. ^{13}C NMR studies of SNAPicillin compound and unmodified ampicillin.

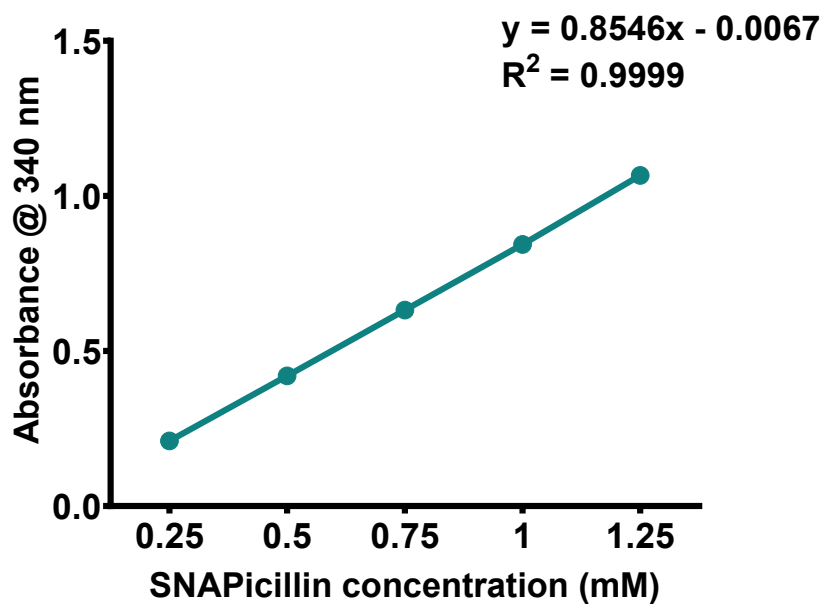


Figure S4. The calibration curve of SNAPicillin in PBS (10 mM, pH 7.4) with 100 μ M of EDTA recorded using UV-vis spectrophotometer at 340 nm wavelength. Equation of line: $y = 0.8456x - 0.0067$ ($R^2 = 0.999$).

Table S1. Solubility of SNAP in DI water

SNAP in DI H ₂ O	
Concentration (mM)	Soluble?
1	Y
5	Y
10	Y
15	Y
20	Y
25	Y
45	N

Table S2. Solubility of SNAP in PBS-EDTA

SNAP in 10 mM PBS w/ 100 μ M EDTA	
Concentration (mM)	Soluble?
1	Y
5	Y
10	Y
15	Y
20	Y
25	Y
45	N

Table S3. Solubility of SNAP in HBSS

SNAP in HBSS media	
Concentration (mM)	Soluble?
1	Y
5	Y
10	Y
15	Y
20	Y
25	Y
45	N

Table S4. Solubility of ampicillin in DI water

Ampicillin in DI H ₂ O	
Concentration (mM)	Soluble?
1	Y
5	Y
10	Y
15	Y
50	Y
100	Y
150	Y

200	Y
250	Y

Table S5. Solubility of ampicillin in PBS-EDTA

Ampicillin in 10 mM PBS w/ 100 μ M EDTA	
Concentration (mM)	Soluble?
1	Y
5	Y
10	Y
15	Y
50	Y
100	Y
150	Y
200	Y
250	Y

Table S6. Solubility of ampicillin in HBSS media

Ampicillin in HBSS media	
Concentration (mM)	Soluble?
1	Y
5	Y
10	Y

15	Y
50	Y
100	Y
150	Y
200	Y
250	Y

Table S7. Solubility of SNAPicillin in DI water

SNAPicillin in DI H ₂ O	
Concentration (mM)	Soluble?
1	Y
5	N
10	N
15	N

Table S8. Solubility of SNAPicillin in PBS-EDTA

SNAPicillin in 10 mM PBS w/ 100 μ M EDTA	
Concentration (mM)	Soluble?
1	Y
5	Y
10	Y
15	N

Table S9. Solubility of SNAPicillin in HBSS media

SNAPicillin in HBSS	
Concentration (mM)	Soluble?
1	Y
5	Y
10	N
15	N