Supporting Information

# Synthetic Polypeptides with Cationic Arginine Moieties Showing High Antimicrobial Activity in Similar Mineral Environments to Blood Plasma

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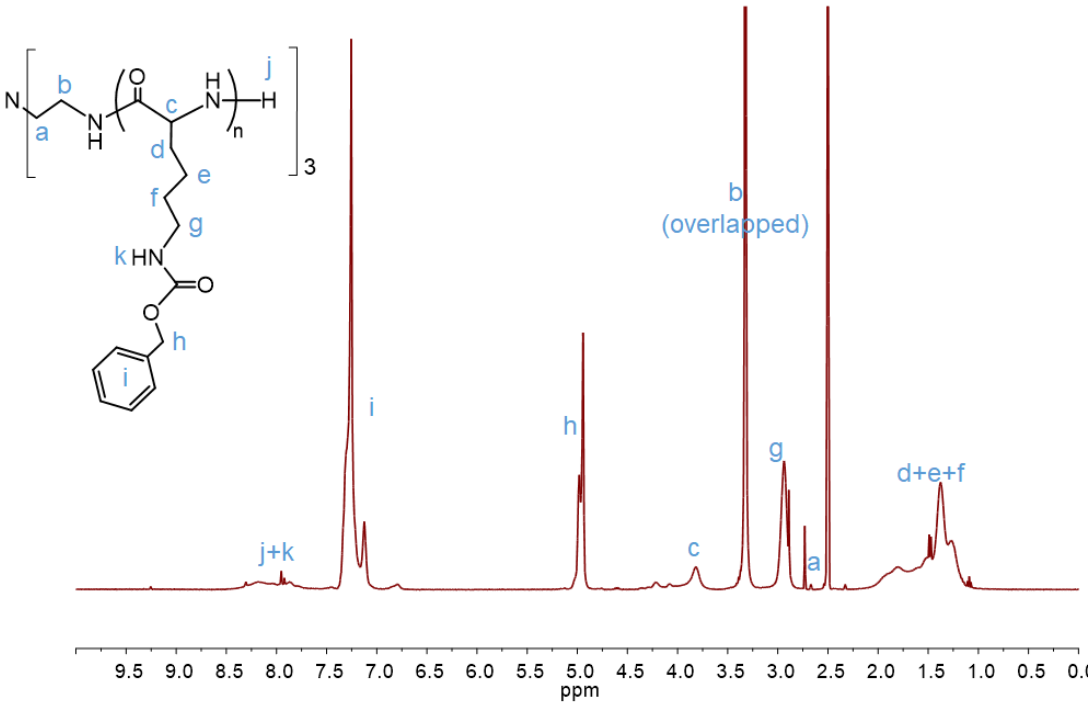


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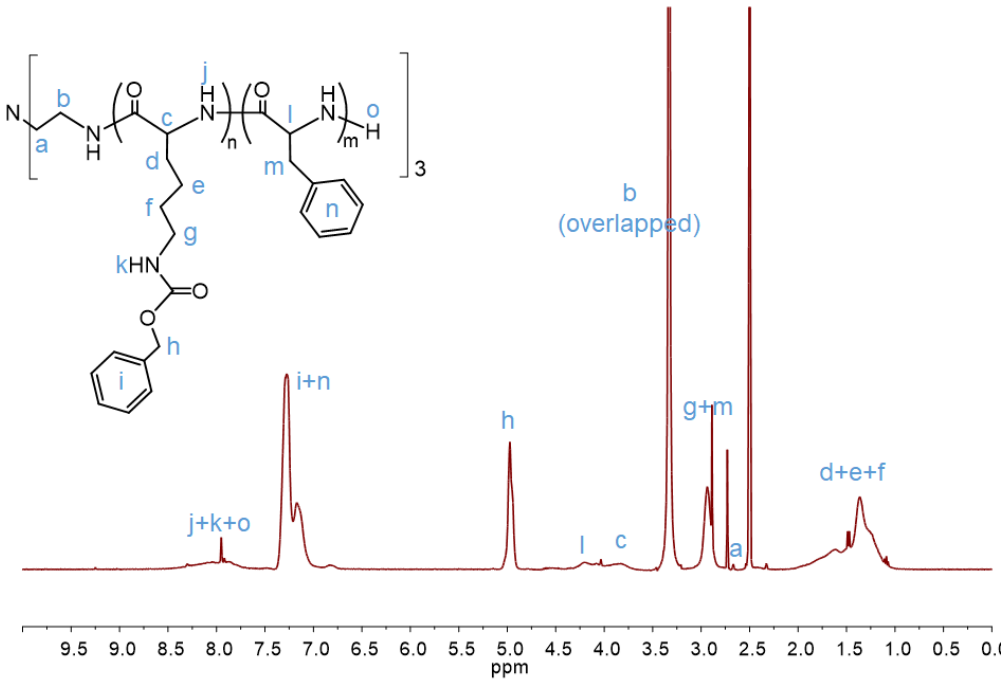



**Figure S2** $^{1}$H NMR spectra of *s*-p[(Cbz-Lys)$_{31}$-*co*-(Phe)$_8$]$_3$ (Entry 2 in Table 1) in DMSO-$d_6$.

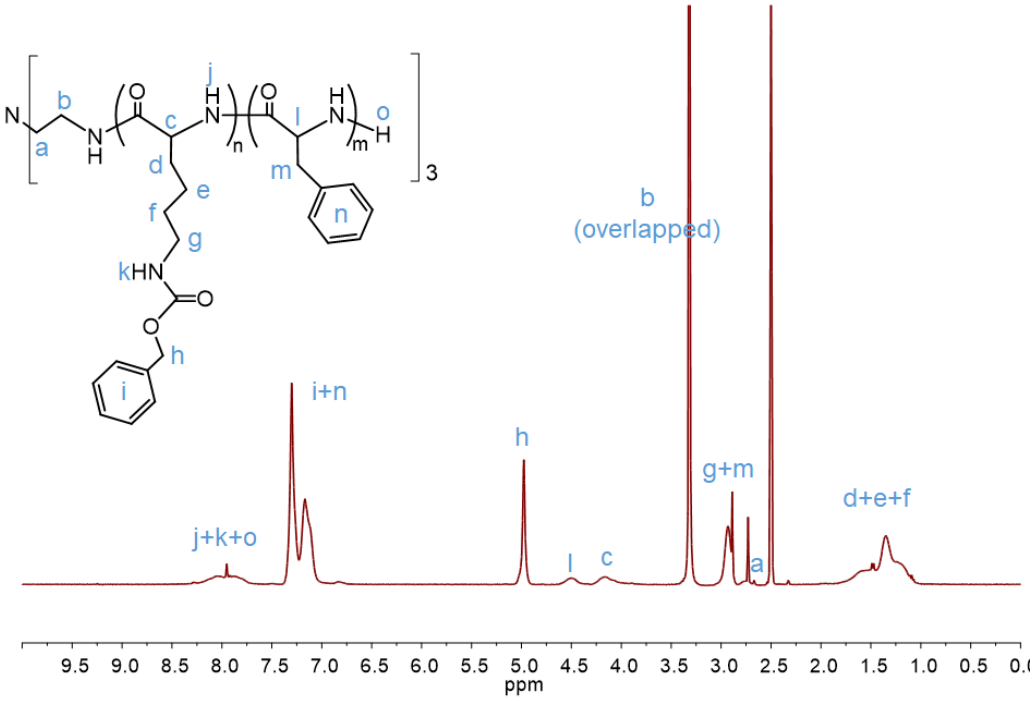
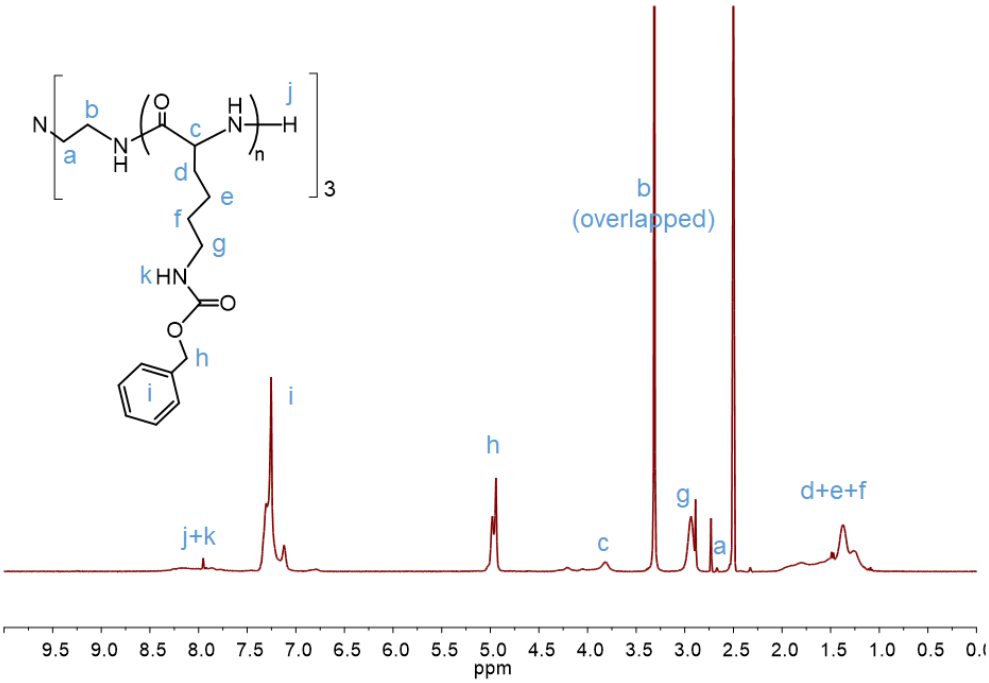



**Figure S3** $^{1}$H NMR spectra of *s*-p[(Cbz-Lys)$_{25}$-*co*-(Phe)$_{15}$]$_3$ (Entry 3 in Table 1) in DMSO-$d_6$.

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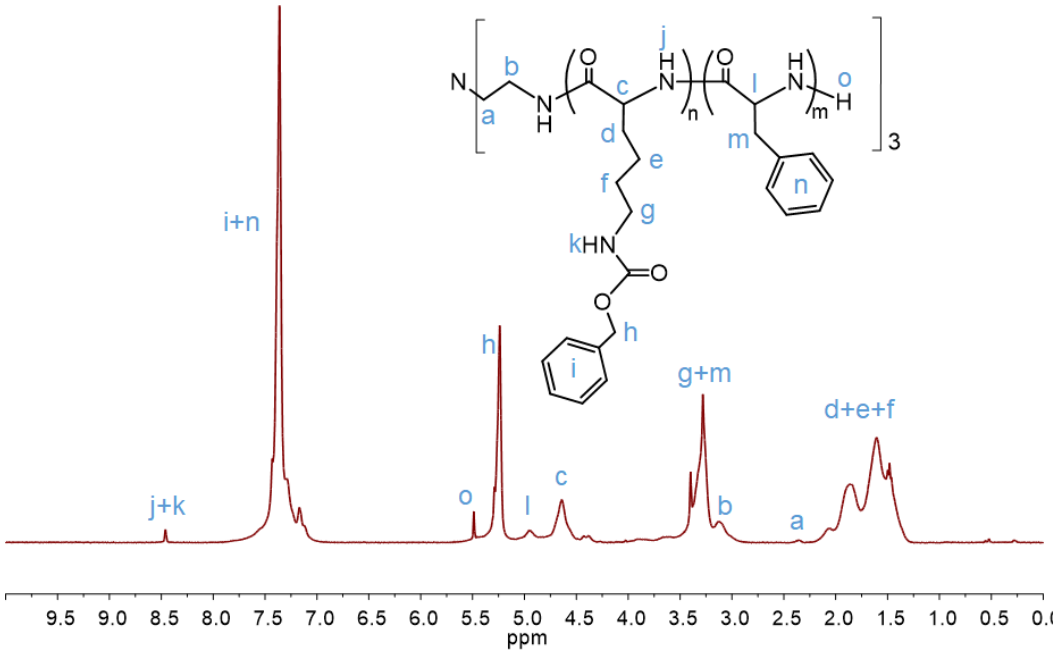


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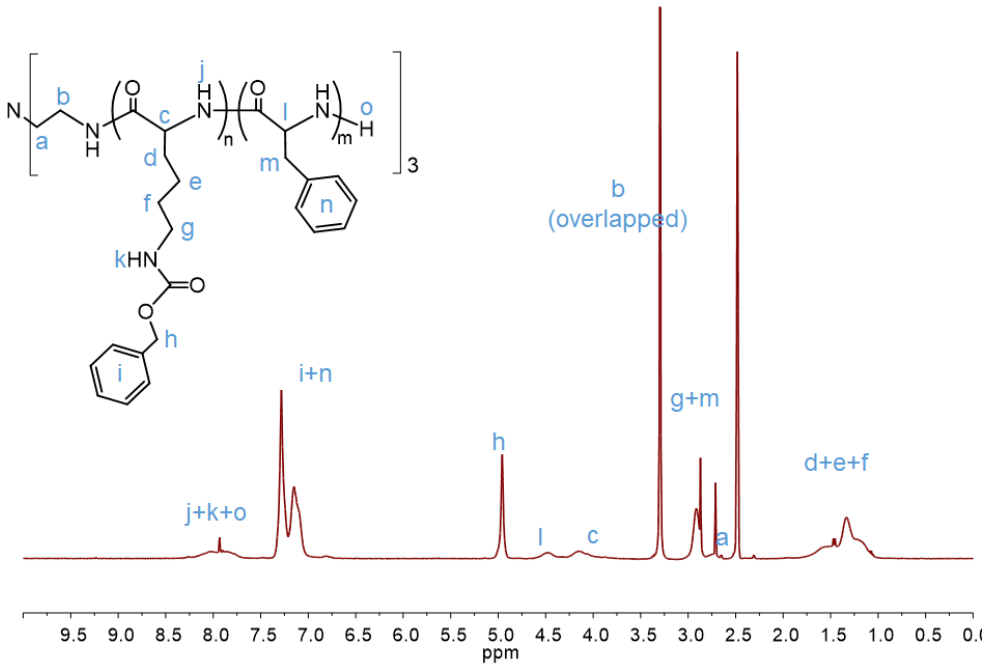


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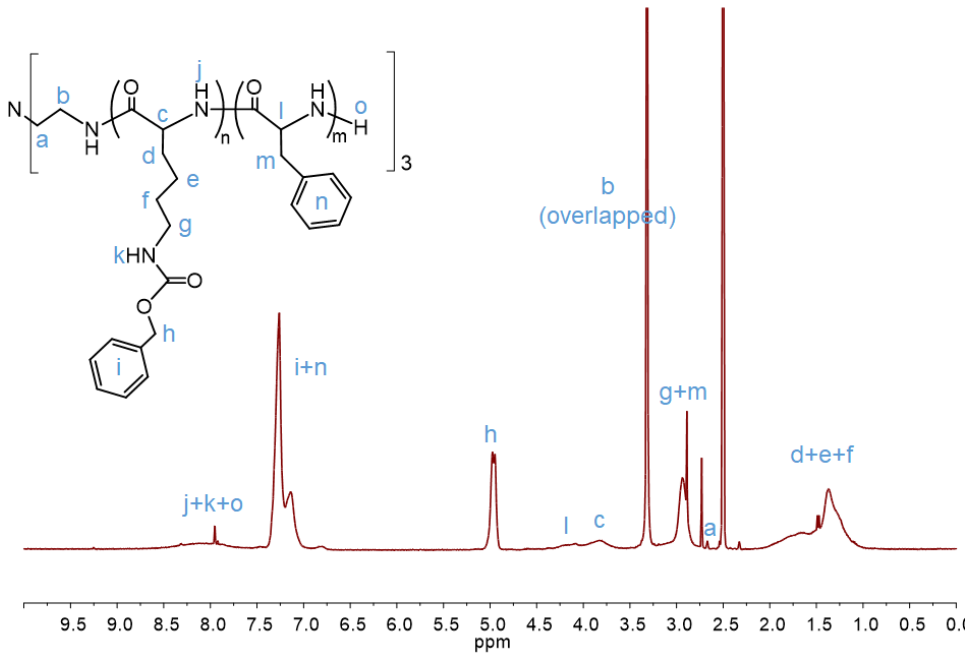


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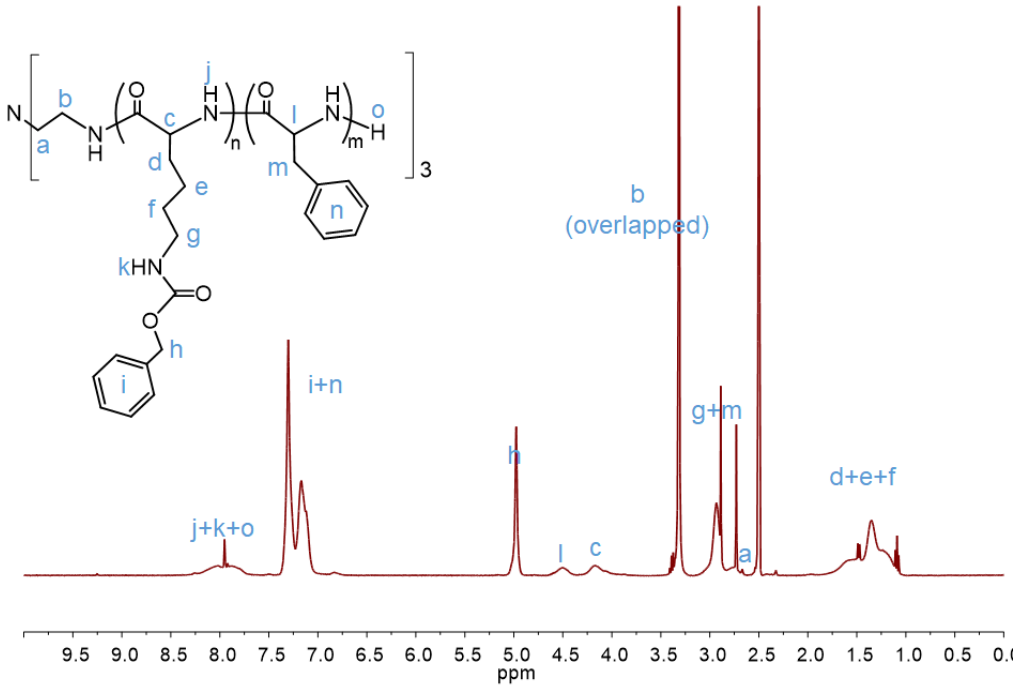


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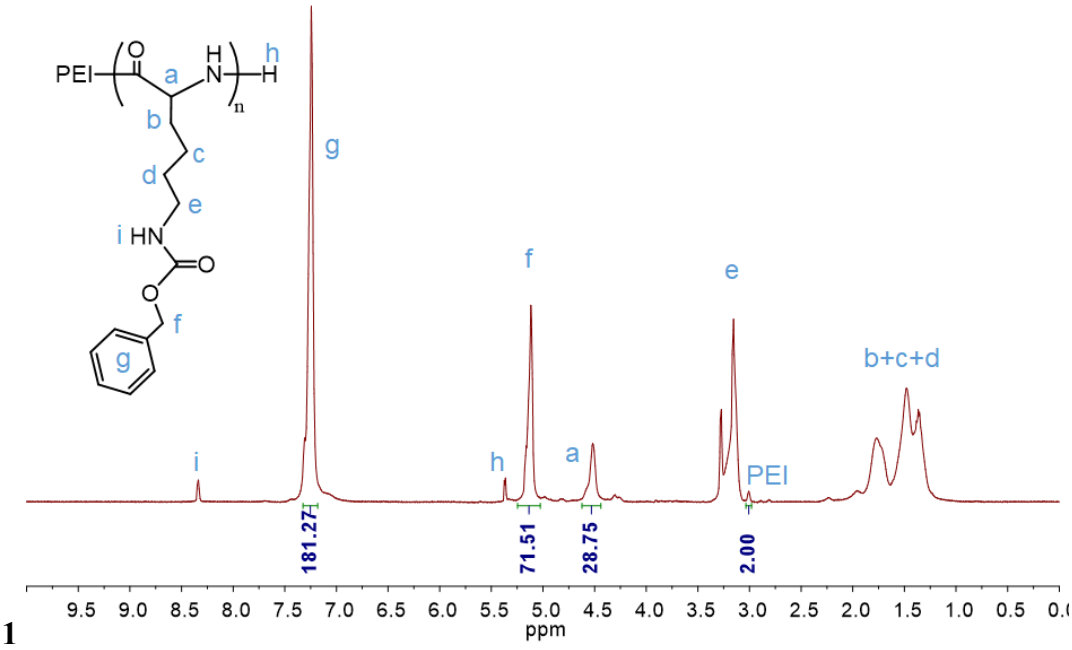


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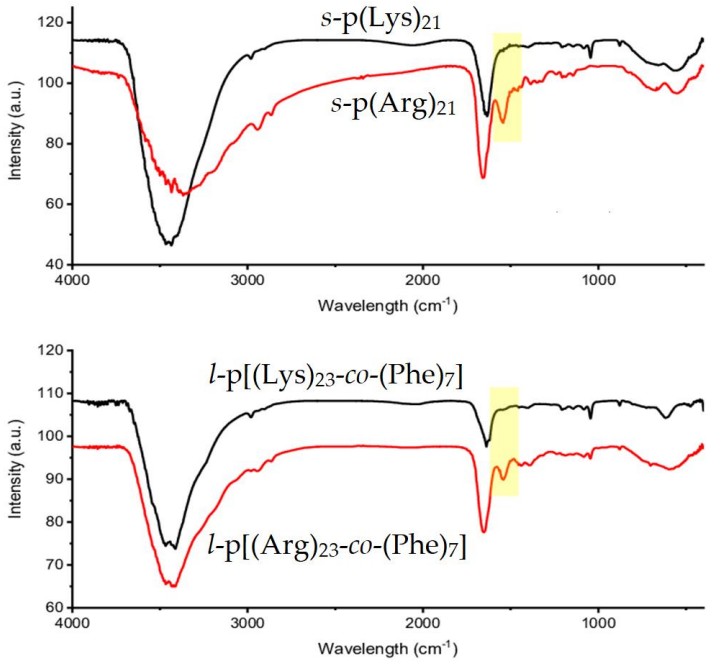


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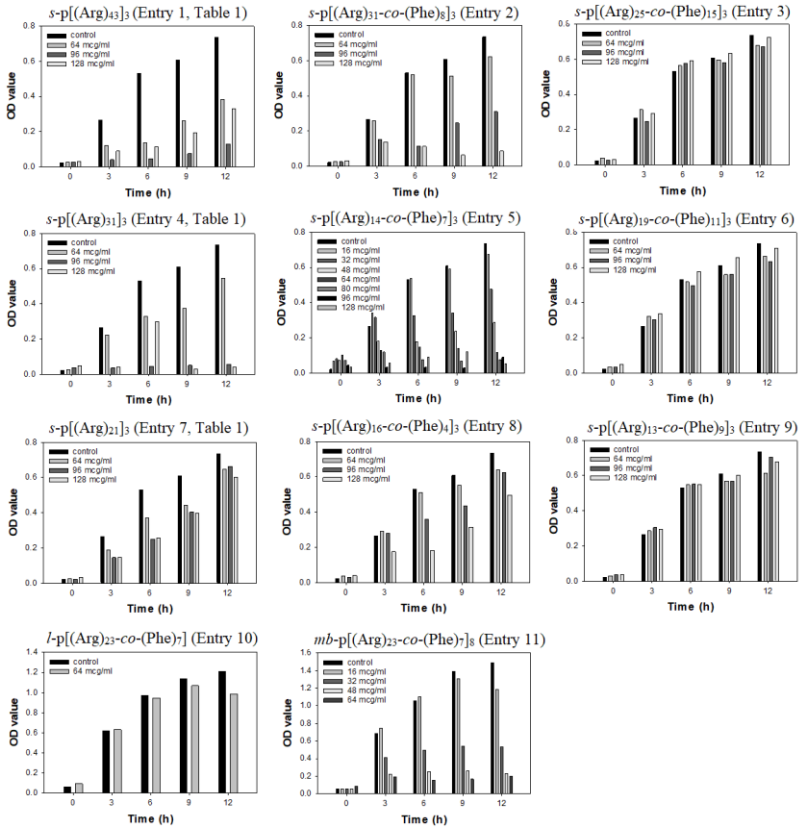
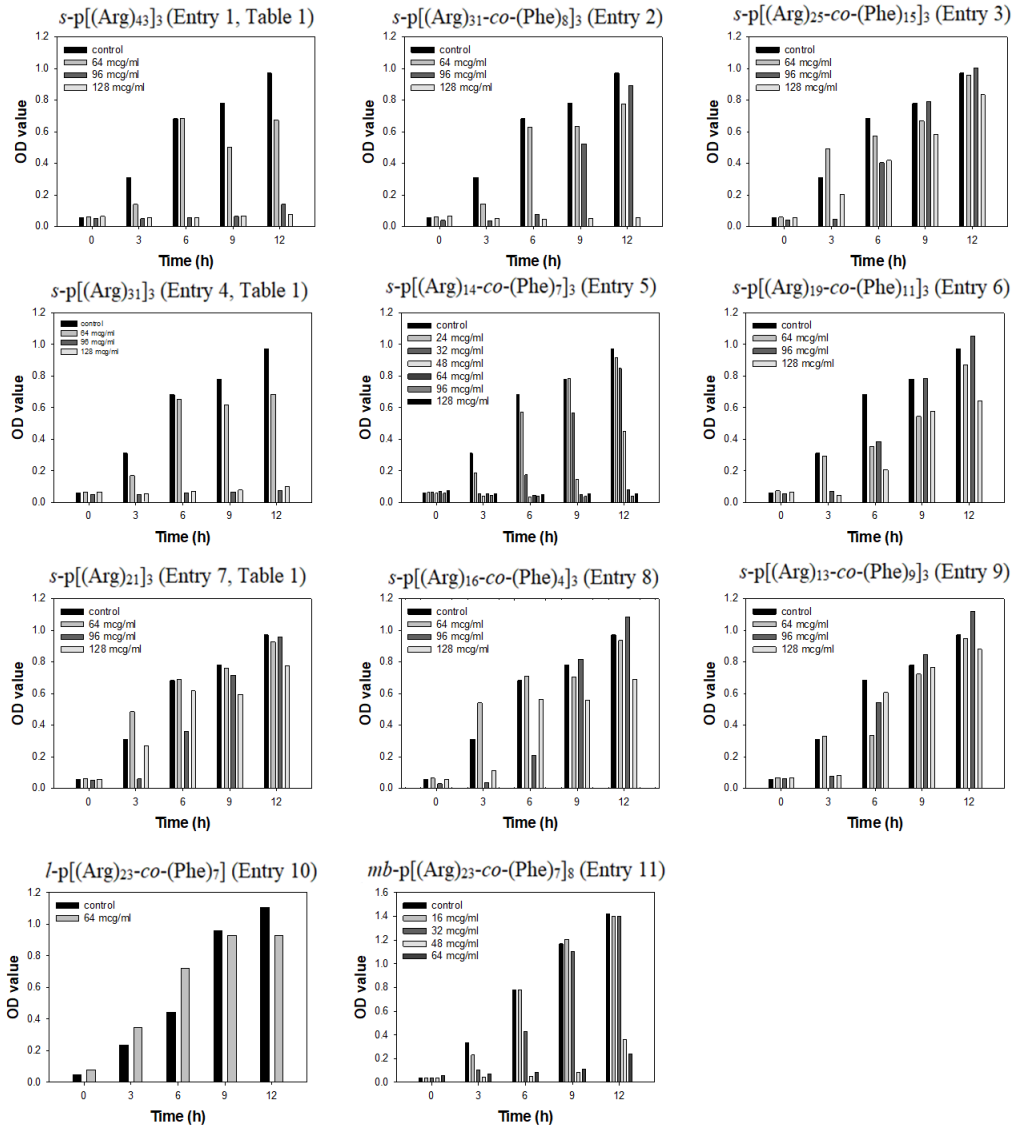



**Figure S11**. Determination of minimal inhibitory concentration (MIC) on *E. coli* cells with *l*-, *s*- and *mb*-polypeptides.

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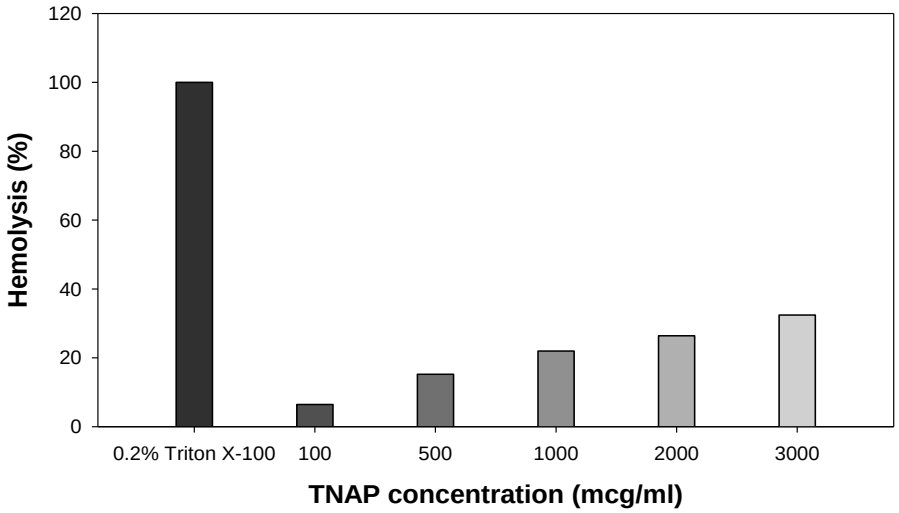

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