Supplemental Figure 1 Selected non-antimicrobials were tested in two-fold dilutions ranging from 0.625 µM to 40 µM against pre-formed biofilms of *Staphylococcus aureus*. Most of the drugs lost their antimicrobial activity against biofilms. Niclosamide, Carmofur, and Auranofin, however, were still effective at inhibiting *Staphylococcus* growth, albeit to a lesser extent.
**Supplemental Figure 2** Log reduction of viable cells within biofilms after two and twenty hour treatments with 40μM Auranofin, Carmofur, and Niclosamide.

**Supplemental Figure 3** Production of extracellular biofilm matrix over a period of 48 hrs. Untreated biofilms of *S. aureus* were grown and stained with the FilmTracer Sypro Ruby Stain, which selectively stains glycoproteins present in the matrix.