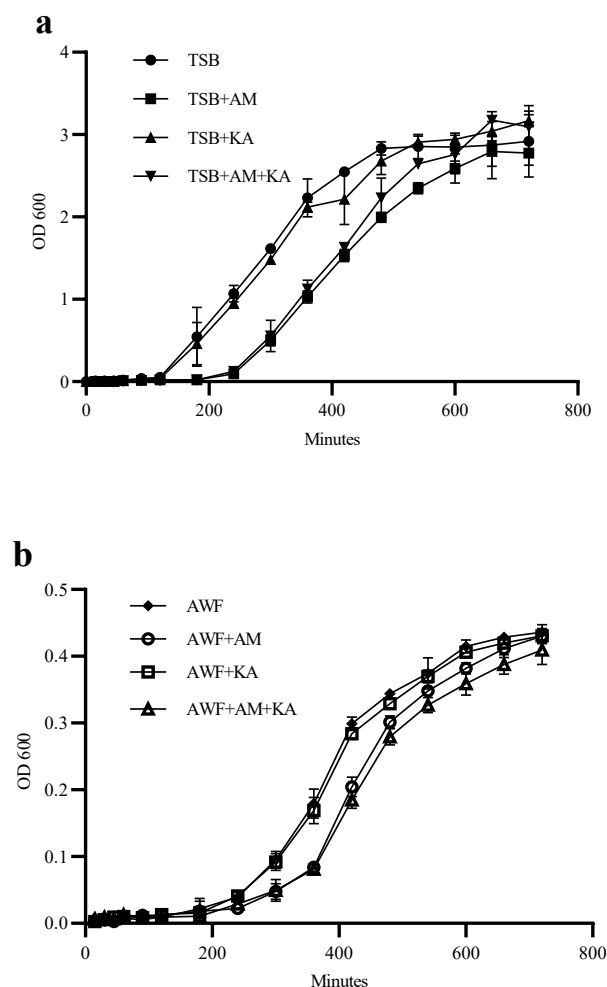
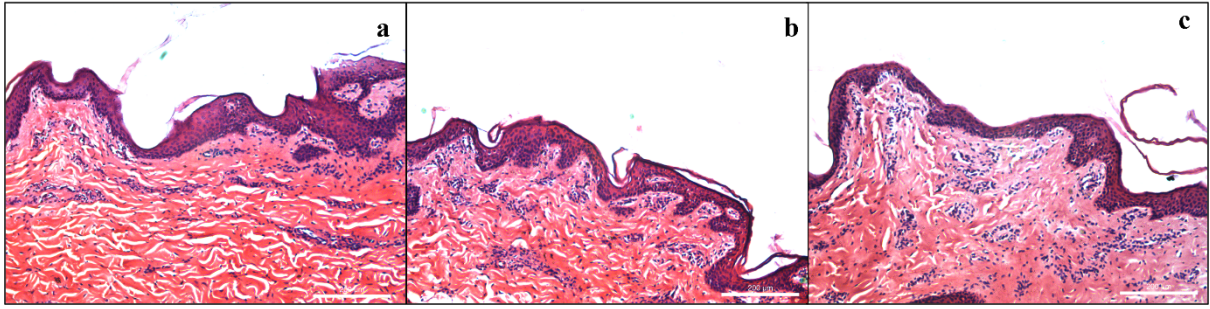


## Supplementary data



**Supplementary Figure S1.** Growth curves of *S. aureus* MRSA252 in TSB and AWF with or without ampicillin and kanamycin at 37 °C with shaking at 180 rpm, where a) is *S. aureus* MRSA252 growth curves in TSB and AFW; b) is growth curves in TSB with/without antibiotics; and c) is growth curves in AWF with/without antibiotics. The curves show the means of optical density at 600 nm, and error bars indicate standard deviations. Each experiment was done in duplicate. TSB, tryptone soy broth; TSB + AM, tryptone soy broth with ampicillin; TSB + KA, tryptone soy broth with kanamycin; TSB + AM + KA, tryptone soy broth with ampicillin and kanamycin; AWF, artificial wound fluid. Both a and b show the mean values from 2 independent experiments.



**Supplementary Figure S2.** Histology of untreated (a), PBS treated (b) and 0.1% PAA treated (c) porcine skin pieces. The scale bar is equivalent to 200  $\mu\text{m}$ .