Supplementary material to

EFFICACY OF CALTROPIS PROCERA AND FICUS SYCOMORUS EXTRACTS IN TREATING MRSA (METHICILLIN-RESISTANT STAPHYLOCOCCUS AUREUS)-KERATITIS IN RABBIT

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Supplementary Figure 1: Clinical signs of bacterial keratitis after treatment with extracts of C. procera latex and F. sycomorus leaves. Group 1 (a, g), received sterilized saline solution served as control (normal eyes view, with no clinical signs symptoms); groups from 2 to 6 were injected with 100 μl saline solution containing approximately 1500 cfu of MRSA (S. aureus). At the 5th DPI, severe clinical signs were observed in groups 2 (b) (untreated) and 5 (e) (treated with aqueous extract of F. sycomorus leaves) and moderate signs in groups 3 (c) (treated with chloramphenicol), 4 (d) (treated with aqueous extract of C. procera latex) and 6 (f) (treated with ethanol extract of F. sycomorus leaves). At the 12th DPI, severe signs of keratitis were still observed in group 2 (h) while mild signs were observed in groups 3 (i) and 5 (k). No clinical signs were observed in groups 4 (j) and 6 (l). In all treatments, the dose was 2 drops 3 times daily.
Supplementary Figure 2: Representative histopathological examples of corneas demonstrating cornea ulceration (a), necrosis (b), leukocyte infiltration density (c) in MRSA-inoculated animals and from (d) to (g) animals after treatment with chloramphenicol (d), aqueous extract of *C. procera* latex (e), aqueous extracts of *F. sycomorus* leaves (f), and alcoholic extracts of *F. sycomorus* leaves (g).
Supplementary Figure 3: Representative histopathological examples of iris, ciliary body and processes demonstrating edema (a), depigmentation and leukocytic infiltration (b) in MRSA-inoculated animals and from (c) to (f) animals after treatment with chloramphenicol (c), aqueous extract of C. procera latex (d), aqueous extracts of F. sycomorus leaves (e), and alcoholic extracts of F. sycomorus leaves (f).
Supplementary Figure 4: Representative examples for histopathology of conjunctiva demonstrating: (a) normal tissue appearance of uninfected control, (b) mucosal necrosis and leukocytic infiltration in MRSA- inoculated animals, (c) after treatment with chloramphenicol, (d) after aqueous extract of *C. procera* latex, (e) and (f) after aqueous and alcoholic extracts of *F. sycomorus* leaves.