

Supplement Figure 1. The structure of the 19 active ingredients in garlic.

Supplement Figure 2. Evaluation of the knockdown efficacy of different siRNAs.

Supplement Figure 3: Comparison of therapeutic effects of the three methods on infection and the relationship between NF- κ B pathway and cytokines. (a-d) The Violin plots of the changes of I κ B α , p65 NF- κ B, IL6, and IL-1 β . (e-h) The correlation density map displayed the relationship between NF- κ B pathway and cytokines. (i) Differences in the therapeutic scores among four therapies (**P < 0.01).

Supplement Figure 4. Determination of the histological effects of allicin on the livers of rats.

All liver samples were stained using hematoxylin–eosin ($\times 200$ magnification, Scale Bar:100 μ m) for exploring the liver change. Representative photomicrographs of H&E staining of paraffin-embedded bladder sections from Group 1 was the control group (10% DMSO i.p. + 10% DMSO); group 2 received allicin (10mg/kg) i.p. only; group 3 received allicin (50mg/kg) i.p. only; group 4 received *E. coli*; group 5 received allicin (50mg/kg) i.p.+ *E. coli* while group 6 received allicin (50mg/kg) i.p.+ *E. coli*.