WHAT IS CLAIMED IS:

1. An antibacterial composition for treating staphylococcal infections, comprising a first antibacterial protein consisting of the amino acid sequence as set forth in SEQ. ID. NO: 1 and a second antibacterial protein consisting of the amino acid sequence as set forth in SEQ. ID. NO: 2,

wherein the antibacterial composition has a broad bactericidal activity against at least one of or all following *Staphylococcus* species: *Staphylococcus arlettae, Staphylococcus aureus, Staphylococcus auricularis, Staphylococcus carnosus, Staphylococcus carprae, Staphylococcus chromogenes, Staphylococcus cohnii, Staphylococcus delphini, Staphylococcus epidermidis, Staphylococcus equorum, Staphylococcus gallinarum, Staphylococcus hemolyticus, Staphylococcus hominis, Staphylococcus intermedius, Staphylococcus kloosii, Staphylococcus lentus, Staphylococcus lugdunensis, Staphylococcus muscae, Staphylococcus pasteuri, Staphylococcus saprophyticus, Staphylococcus warneri*, and *Staphylococcus xylosus*; and

wherein the antibacterial composition includes 15-35 mole % of the first antibacterial protein and 55-85 mole % of the second antibacterial protein.

2. The antibacterial composition of claim 1, wherein the staphylococcal infections are skin infections, soft-tissue infections, toxic shock syndrome, purpura fulminans, endocarditis, osteomyelitis, pneumonia, infections related to prosthetic devices, or urinary tract infections.

3. The antibacterial composition of claim 2, wherein the skin infections are folliculitis, furuncles, impetigo, wound infections, or scalded skin syndrome.

4. The antibacterial composition of claim 2, wherein the soft-tissue infections are pyomyositis, septic bursitis, or septic arthritis.

5. The antibacterial composition of claim 2, wherein the prosthetic devices are prosthetic joints and heart valves, vascular shunts, grafts, or catheters.