In this study, we examined the antibacterial activity of rhizomes of *cyperus rotundus*, a widely used traditional medicinal plant from Bangladesh. It showed the varying levels of inhibitory effectiveness against the tested microorganism. It indicates that this plant might be a good source of antibacterials to fight multidrug-resistant bacterial infections. According to the findings, less polar compounds have stronger antibacterial properties than polar ones. We will conduct further investigations into the plants that demonstrated broad antibacterial activities in vivo to explore their potential as sources of antibiotics against specific human pathogens.