Screening of anti-bacterial activity of C-phycocyanin and its minimum inhibitory concentration (MIC) determination by agar dilution method

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C-phycocyanin was extracted from laboratory grown *Spirulina platensis*, and the identity was confirmed using standard C-phycocyanin, by HPTLC and SDS-PAGE. It was then partially purified and screened for antibacterial activity. The results were compared with standard C-phycocyanin (Sigma-Aldrich) and standard antibiotics. There were 6 bacterial isolates (Clinical isolates) assayed for antimicrobial activity. The study proved that the C-phycocyanin possessed antibacterial activity which was more potent than standard C-phycocyanin.

Key words : C-phycocyanin, Antimicrobial activity, Partial purification, Screening, Minimum inhibitory concentrations