



International Journal of ChemTech Research

CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555 Vol.9, No.12, pp 476-482, 2016

Effect of *Piper cubeba* fruits extract on Hemolysin production of *E. coli* isolated from urinary tract infection

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Abstract: Thirty five *E.coli* isolates were collected from patients suffering from long term urinary tract catheters and urinary tract infections for both genera with age ranging between (11-60) years. The isolates were identified according to cultural, microbiological, biochemical testes. Effect of *Piper cubeba fruits* on Hemolysin production was tested and the result showed that *P. cubeba* fruits extract have effect on hemolysin production, It was found 10 isolates from 24 producer isolates lost their ability to produce hemolysin after incubated bacteria with Minimum inhabiting concentration(MIC) of Piper cubeba fruits extract phenotypically. While screening Hly gen for 20 isolates showed 18 isolates have Hly gen and 7 of them lost Hly gen after treating with the extract. Hemolysin protein concentration was measured by Bradford method, isolates grown without the extract were have protein concentration higher than isolates that grown with the extract(3.5mg/ml and 1mglml) respectively. Statistical analysis of these result show significant differences between them and the "P value" was 0.003.

Key words: Escherichia coli, Hemolysin, Piper cubeba.

AnwarKadhimAL—Saffar *et al* /International Journal of ChemTech Research, 2016,9(12): 476-482
