

**Figure 1: The PCR product of DNA isolated from (*P. fluorescens*) using 16 rRNA primer.
Lane A refers to: DNA marker (100BP LADER); lane B: amplified PCR product**

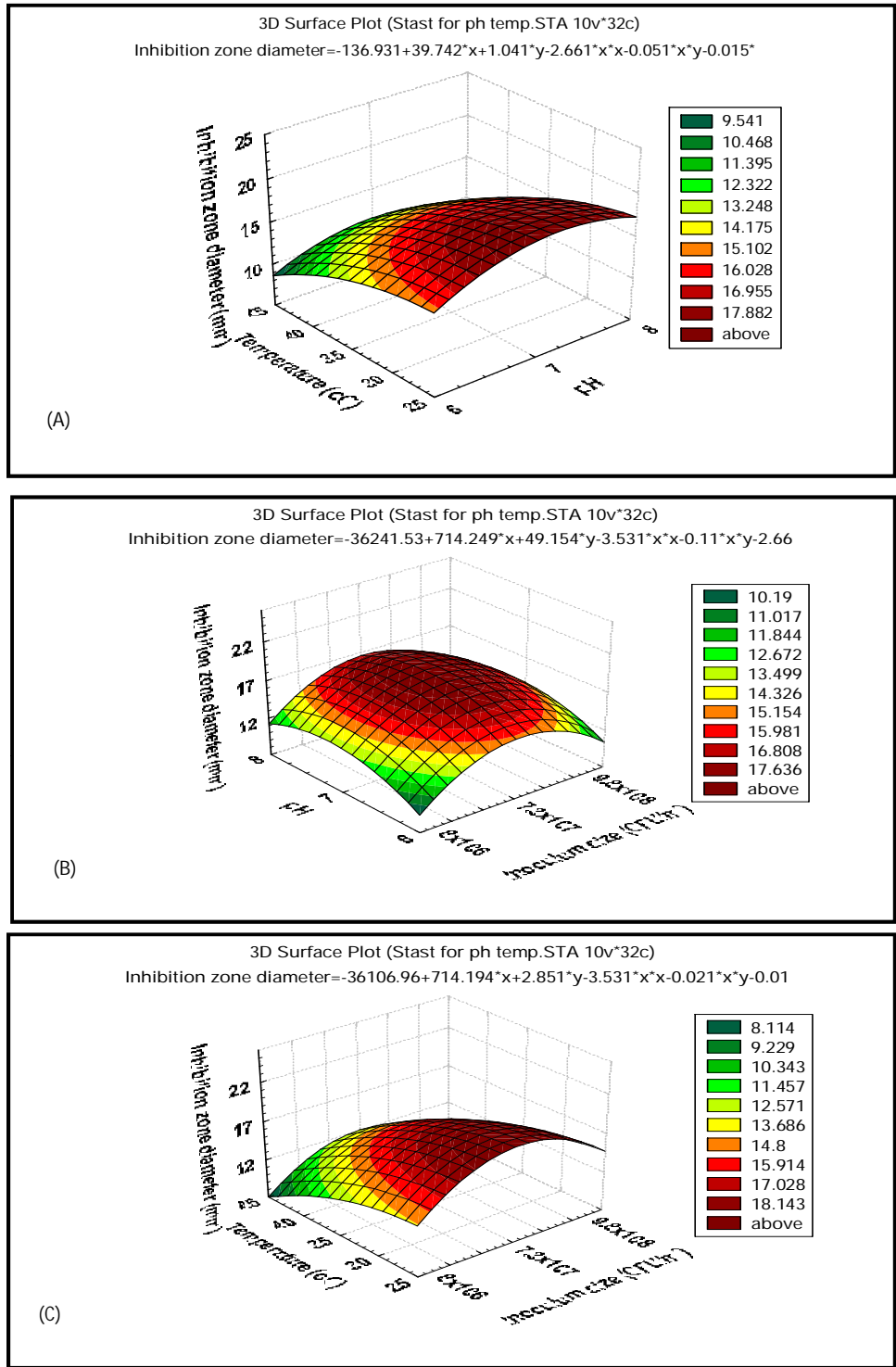


Figure 2: The effect of the interaction between different pH and temperature ($^{\circ}\text{C}$) (A), pH and inoculum size (B) and temperature ($^{\circ}\text{C}$) and inoculum size (C) on the bioactivity of *P. fluorescens* against *K. pneumoniae* using response surface plot curves.

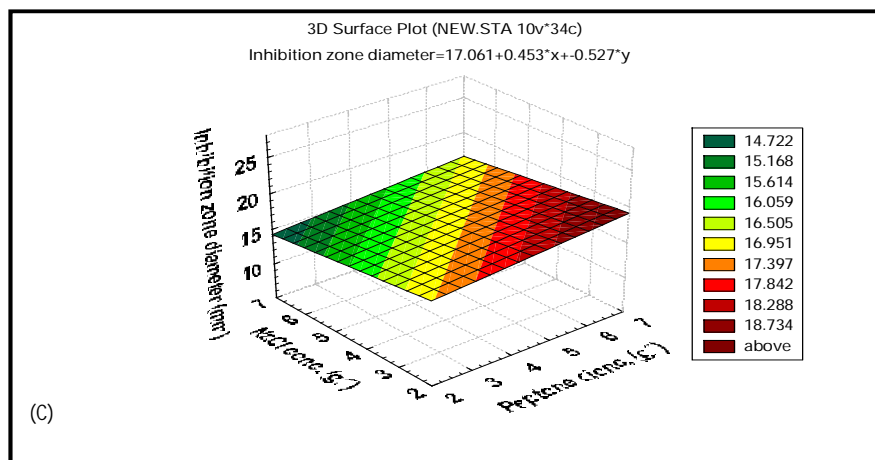
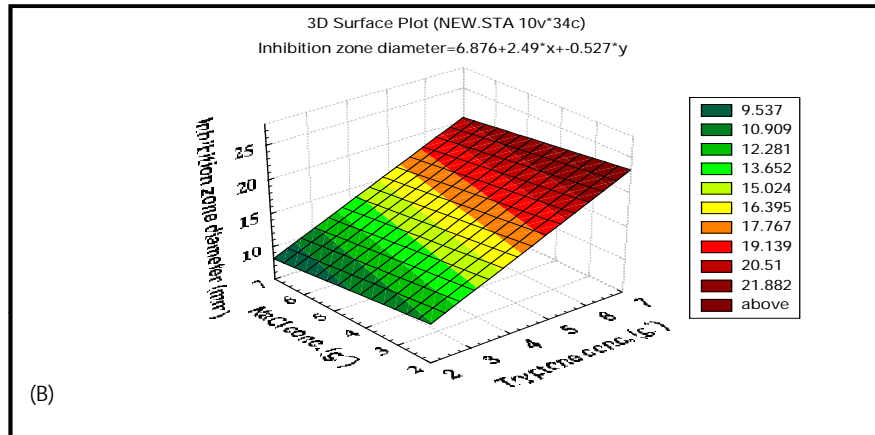
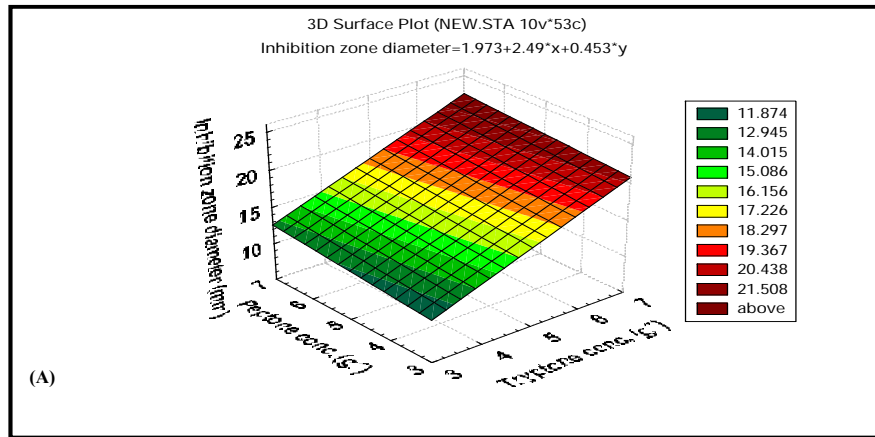


Figure 3: The effect of the combination between different concentrations of tryptone and peptone (A), tryptone and NaCl (B) and peptone and NaCl (C) on the bioactivity of *P. fluorescens* against *K. pneumoniae* using response surface plot curves.

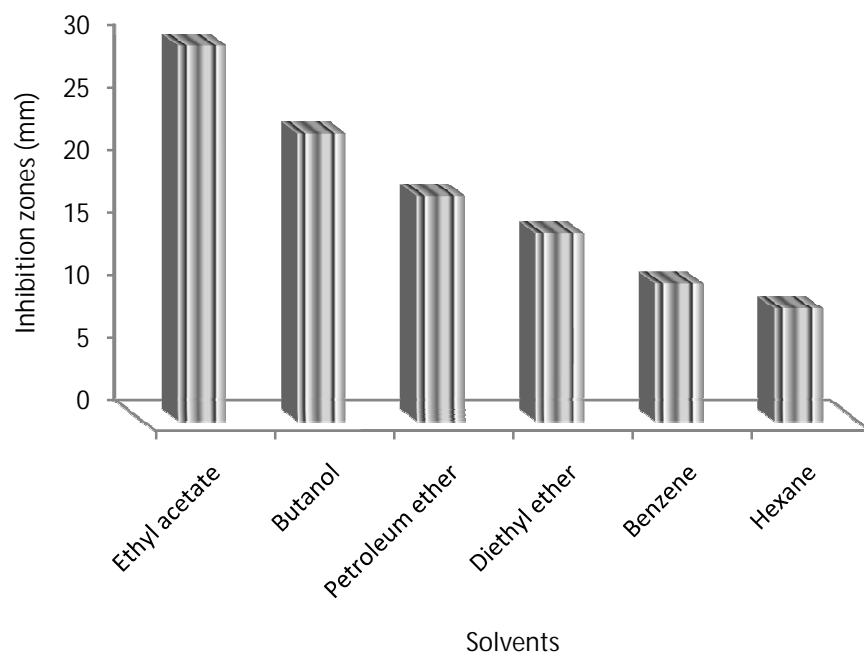


Figure 4: Extraction of the active agents against *K. Pneumoniae* using different polar and non-polar solvents

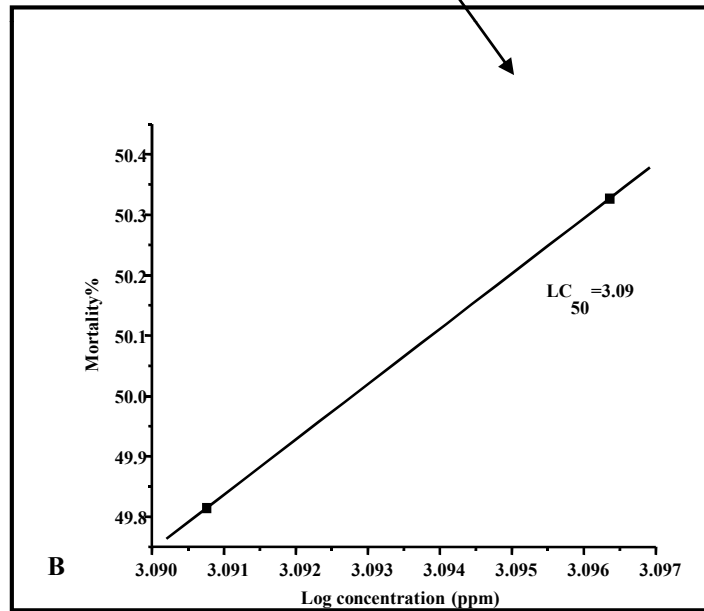
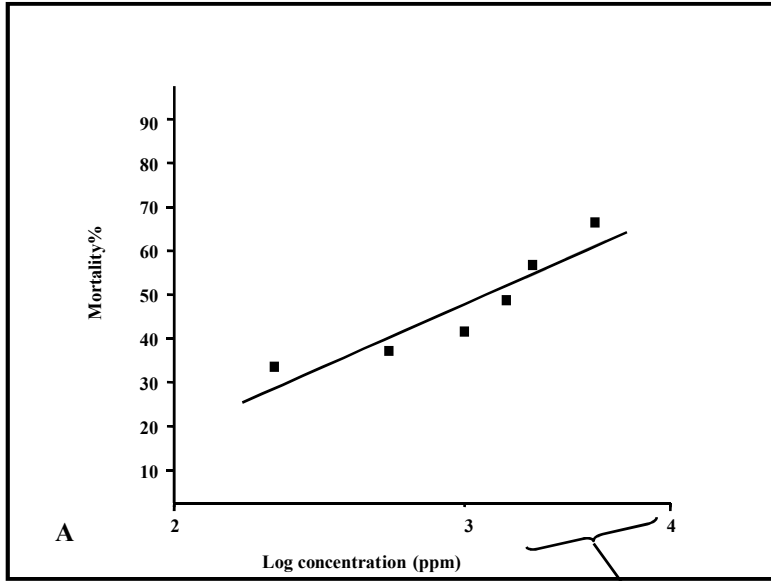


Figure 5: The bio-toxicity curve of the crude extract showing the best fit line (A) and the log concentration of the LC50 value ($\approx 1050 \mu\text{g}$ crude/ml) (B).

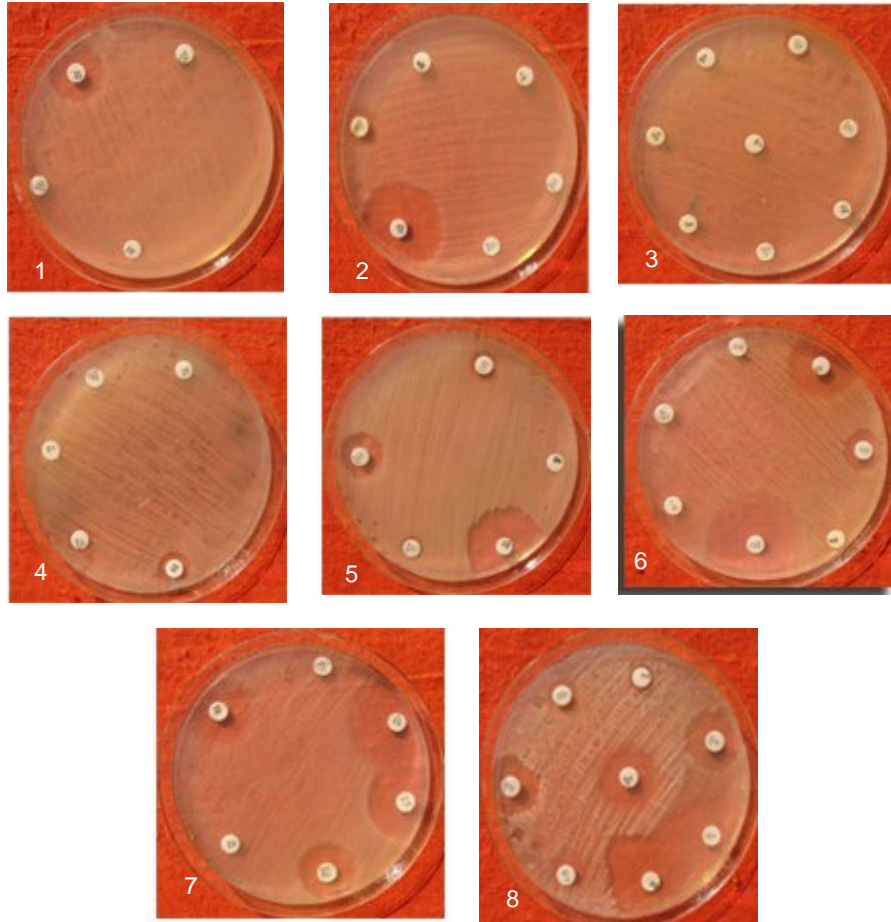


Figure 6: The photographs from 1 to 7 show the inhibition zones of some commercial antibiotics CFP₇₅, DO₃₀, ATM₃₀, CAR₁₀₀, AK, FEP, IMI, respectively, compared to the inhibition zone obtained by *P. fluorescens* crude extract (photograph -8) using 1.2×10^3 CFU/ml of *K. pneumoniae* as a target pathogen.