Characterization of *Aeromonashydrophila* type strains isolates from industrial wastewater Hilla - Iraq

Lecturer. SuadGhaliKadhim ALahmed[1]
MSc .Microbiology, College of Sciences
Babylon University
Babylon, Iraq
Suad_chaly2000@yahoo.com

Assist.Prof. Anwar Kadhim AL-saffar[2]
MSc .Microbiology, College of Sciences
Babylon University
Babylon, Iraq
Anwaralsafar78@gmail.com

Lecturer. Thekraabdulaali abed al-chaabawi[3]
MSc .Microbiology, College of Sciences
Babylon University
Babylon, Iraq
Chacky2015@gmail.com

***Abstract*-Twenty one strains of motile Aeromonas species were isolated fromIndustrial wastewaterAl- Furat Company Hilla- Iraq. The Study aimed to evaluate the possible ecological effect of the industrial waste water released from Company . Samples were monthly taken started from may 2013 to October 2013 . The results showed that the natural properties of waste water were variable due to the nature of the materials dumping in the derange stream . It was found the pH ranged from (1.5 - 5.2) , conductivity reached to 3100 Ms / cm while the higher concentration of COD, TDS , Cl , SO4 , Ca and Mg were 140 , 1953 , 335 , 738, 200 and 104 mg/l respectively.**

A. hydrophila suspected isolale was screening by traditionally tests and then confirmed by Vitek 2 system and PCR technique (16S r RNA gene). Inthis study A. hydrophilstrains are highly resistance to several antibiotics that was considered as pathogen for human being causing several disease.

Keywords: **Aeromonashydrophila, Wastewater, Al-Furat Company.**

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