## INFLUENCE OF GROWTH MEDIA ON POTENTIAL VIRULENCE FACTORS OF PSEUDOMONAS AERUGINOSA

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## **SUMMARY**

Potential virulence factors of three Pseudomonas aeruginosa strains after growth in three complex media (CM) and in one mineral medium (MM) were evaluated. Cell surface hydrophobicity demonstrated by adherence of bacteria to xylene as well as enzymatic activity (elastase, protease, lipase) of the strains grown in CM varied with composition of CM and with strain. All strains cultivated in CM showed higher hydrophobicity and higher elastase, protease and lipase (with the exception of one strain) activity in comparison with bacteria incubated in MM. Even no production of elastase was detected in the strains after growth in MM. Motility of bacteria was affected by culture media the least. In vitro composition of growth media influenced some potential virulence factors of P. aeruginosa.

Key words: Pseudomonas aeruginosa, virulence factors, growth medium

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