

CELLULAR IMMUNE RESPONSE TO OUTER MEMBRANE PROTEINS ISOLATED FROM *ACINETOBACTER BAUMANNII*

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ABSTRACT

A total of 458 samples were collected during 2012, distributed in urine, blood, sputum, swabs from wound infection and swabs from burn. The results revealed that 11 (2.4%) isolates obtained belonged to *Acinetobacter baumannii*, which were collected from various clinical samples distributed in blood 1 (0.93%), urine 2 (1.44%), wound infection 2 (3.12%) and burn 6 (6.25%). These isolates were identified by using microscopic examination, biochemical tests, and vitek 2 system. The SDS-PAGE method was used to analysis outer membrane proteins profile revealed that the molecular weight was around 44 KD. Immunization was carried out for three rabbits groups after preparation outer membrane proteins (OMPs) and killed antigen used for first two groups while a third group represented a control group which was injected with normal saline. At the end of the immunization period then itrobluetetrazolium, E-rosette, were used to investigate the cellular immune response which revealed a significant difference in cellular immune response for rabbits immunized with OMPs and killed antigens in compare with control group.

KEYWORDS: *A. baumannii*, *Oryctylagus conniculus*, Biochemical Tests