

HIGH MOLECULAR PROTEINS ANALYSIS OF *BOTHROPS JARARACA* VENOM WITH IMMUNOLOGICAL IDENTITY WITH BOTHROJARACIN THROUGH PROTEOMIC APPROACH

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Bothrojaracin is a C-type lectin-like purified of the venom of *Bothrops jararaca*. It forms a complex with thrombin inhibiting the aggregation and coagulation. It has been reported that high molecular proteins of about 90 kDa were recognized by bothrojaracin anti-serum. The aim of this study is to identify through proteomic technology these kinds of proteins on *Bothrops jararaca* venom. The venom was purified in a Sephacryl S-200 and the high molecular fractions were pooled and named Pools I and II. These pools were analyzed by 1D and 2D electrophoresis (pI 4-7) in non-reducing condition. The 1D SDS-PAGE showed the presence of 4 bands for pool I and 8 for pool II. The analysis by western blotting against bothrojaracin anti-serum (1:500) revealed three bands recognized at high molecular region for each pool. The 2D electrophoresis showed 28 spots for pool I and 55 for pool II. MALDI-TOF analysis of these spots showed that some spots correspond to isoforms from the same protein. Our results suggest that *Bothrops jararaca* crude venom have many high molecular proteins which showed homology with bothrojaracin. The identification of these proteins using MS-MS and bioinformatic tools is being undertaken in order to elucidate these isoforms.

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