Purification and characterization of a cysteine-rich secretory protein from Philodryas patagoniensis snake venom María E. Peichoto a,b,*, Stephen P. Mackessy c, Pamela Teibler a, Flávio L. Tavares b, Paula L. Burckhardt d, María C. Breno d, Ofelia Acosta a, Marcelo L. Santoro b					

mammalian skeletal muscle of a CRiSP from the venom of

a force transductor (Ampère, Brazil) connected to a recording system (ECB, Brazil).

2.10. Statistical analysis

Where appropriate, the results were expressed as mean \pm standard deviation (SD). Differences between groups were compared using one-way analysis of variance (ANOVA) followed by Tukey's test. Statistical analyses were performed using the software InfoStat/Professional, version 1.1. A value of p < 0.05 indicated statistical significance.

3.1. Puri



separated protein bands were excised, in-gel digested with trypsin and the resulting peptides were analyzed by MALDI-TOF peptide mass fingerprinting followed by MALDI-TOF/TOF. The MALDI-TOF mass spectrum of the digested protein is shown in Fig. 3. The MS/MS spectrum of the fragmented singly-charged peptide ion (m/z= 1511.806) was matched by MASCOT to an internal sequence within the PR-1 (pathogenesis-related proteins of group 1) domain, MEWYAEAAANAER, from CRiSP-PHI1 and CRiSP-PHI2 of Philodryas olfersii (Ching et al., 2006; Fry et al., 2006). All of these results confirmed that a CRiSP from P. patagoniensis snake venom had been purified.

3.2. Patagonin activities

The purified protein, up to a final concentration of 400 $\mu g/m L$, hydrolyzed neither azocasein nor fibrinogen. When incubated with azocoll, patagonin (554 $\mu g/m L$, final concentration) did not degrade this substrate. It did not induce edema or hemorrhage, even at a dose of 20 μg . When added to washed human platelet suspensions or PRP, patagonin at concentrations up to 100 nM (final concentration)