

## ENZYMATIC CHARACTERIZATION OF THE LATEX FROM *Artocarpus heterophyllus* LAM.

SOUSA, E.B.M.<sup>1</sup>; PINHO, R.S.<sup>2</sup>; PORTO, A.L.F.<sup>3,6</sup>; PORTO, C.S.<sup>4,6</sup>; VIANA, D.A.<sup>5,6</sup>; SOARES, M.T.C.V.<sup>3,6</sup>; LIMA FILHO, J.L.<sup>6</sup>.

<sup>1</sup>Mestrando em Botânica/PPGB/UFRPE; <sup>2</sup>Doutoranda em Botânica/PPGB/UFRPE; <sup>3</sup>Departamento de Morfologia e Fisiologia Animal/UFRPE; <sup>4</sup>Doutoranda em Biotecnologia/UFPE; <sup>5</sup>Doutoranda do Programa de Pós-Graduação em Tecnologia Bioquímica-Farmacêutica /USP; <sup>6</sup>Laboratório de Imunopatologia Keizo Asami-LIKA-UFPE

Recent studies demonstrate that extracted latex of plants as the *Hevea brasiliensis* and the *Carica papaya* presents some active biological composites. Another species of importance, the jack fruit (*Artocarpus heterophyllus* Lam.), pertaining the Moraceae family, is found in diverse places do world, including Brazil. There has been little scientific investigation conducted about the enzymatic characterization and properties that its latex of this species. This work had as objective to evaluate the enzymatic profile of the latex of the jack fruit. The analyses had been carried out using latex extracted of leaves, with water distilled (1:1) of *A. heterophyllus* situated in the campus of the UFRPE, kept under refrigeration. The following determination had been carried out: total protein content, proteolytic, chitinolytic, ascorbate oxidoreductase and catalase activities. The results shown that catalase (50U/mg) and ascorbate oxidoreductase (639,53µmol/min.mg) activities are higher than those finding for protease (38,42U/mg) and chitinase (0,05U/min.mg) in latex. The data are the first stories of the investigate of the enzymatic profile of the latex *A. heterophyllus* Lam., which demonstrated to be a promising enzyme source with biotechnological potential

**KEYWORD:** *Artocarpus heterophyllus* Lam., enzymes, látex

**SUPPORT BY:** Laboratorio de Imunopatologia Keizo Asami-LIKA-UFPE and the Programa de Pós-Graduação em Botânica - UFRPE