

QUANTIFICATION OF BROMELINA (E.C. 3.4.22.32) EXTRACTED OF PINEAPPLE COMOSUS APARTIR OF A WATERY TWO-PHASE SYSTEM.

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This work has as objective the extraction and quantification of bromelina (cisteína endopeptidase) extracted of the pineapple (*Ananas comosus*), using system watery two-phase PEG/sal. For this a system with total mass of 6g was used that they contained 50% p/p of polymers and 40% p/p of you leave them for the described systems for Albertsson (1986). Its proteolítica activity was esteem in accordance with the method of Kunitz (1947) and Walter (1984) modified, using casein 2% (p/v) in drain plug 0.1 M fosfato , pH 7,5 as substratum. To measure the activity mL of the sample added to a pipe was used 0,2 contends 2,5 mL of casein solution, where he was per 10 minutes in bath-Maria 37° C. The reaction was interrupted by the addition of 5 mL of tricloroacetic acid per 10 minutes. After centrifugalization, was chore absorbância of the one on-nadante the 280 nm. It was observed that the protein was concentrated in the superior phase in all tested experimental conditions. Analyzing different pHs (6,0; 7,0 and 8,0), PEGs (550, 1000 and 8000) and tielines (1, 2 and 3). it was possible to establish a correlation of the partition of the bromelina with pH in the band of 7,0 (neutral).

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Key words: bromelina, quantification, watery two-phase system.