E 62 PURIFICATION AND STUDY OF THE PRIMARY STRUCTURE OF A CELLOBIOHYDROLASE FROM TRICHODERMA REESEI

C D Mathew
Dept. of Biochemistry, Faculty of Medicine, University of Colombo
R Bhikhabai and G Pettersson
Dept. of Biochemistry, Biomedical Centre, University of Uppsala, Sweden

A cellobiohydrolase (EC. 3.2.1.91) was purified from a freeze dried culture of Trichoderma reesei by P-10,DEAE Sepharose CL-4B and Sp-Sephadex gel chromatography. The purified enzyme was shown to be homogeneous by isoelectric focusing. The molecular weight determined by gel chromatography in presence of 6 M guanidine HCl was 47 000. The cellobiohydrolase was reduced and alkylated and fragmented using CNBr. The peptides obtained were purified by Sepharose C-50 gel chromatography and HPLC. The N-terminal amino acid sequence of a peptide was determined using a solid phase sequencer to be Ala-Asp-Ala-Tyr-Ala-Val-Ala-Val.