



Guvernul Romaniei

Proiect **CAPACITATI**



Modernizarea Laboratorului de Fizica Moleculara si Biomoleculara

<http://www.itim-cj.ro/mdfmlbio>



Denumirea Investitiei

Spectrometru de dicroism circular vibrational

Valoarea estimata : 792.540 RON

Data achizitionarii : Noiembrie 2011

Performante Tehnice

Permite obtinerea de informatii moleculare structurale, analiza formelor chirale ale enantiomerilor compusilor moleculari si biomoleculari, analiza moleculara conformationala, probleme de stereochimie.

Industria farmaceutica, a alimentelor, precum si agrochimia se confrunta cu puritatea enantiomerica a produselor.

Reference:

T.A.Keiderling, *Vibrational CD: Comparison of Techniques and Practical Considerations, in Practical Fourier Transform Infrared Spectroscopy*, Academic Press, 1990, 203-284

Resurse Umane

Formare profesionala in centre de mare prestigiu, proiecte in parteneriat cu:



Instituto de Salud Carlos III, Majadahonda; Centro Nacional de Microbiologia, CSIC,

Instituto Quimica-Fisica Rocasolano, Madrid, Spain



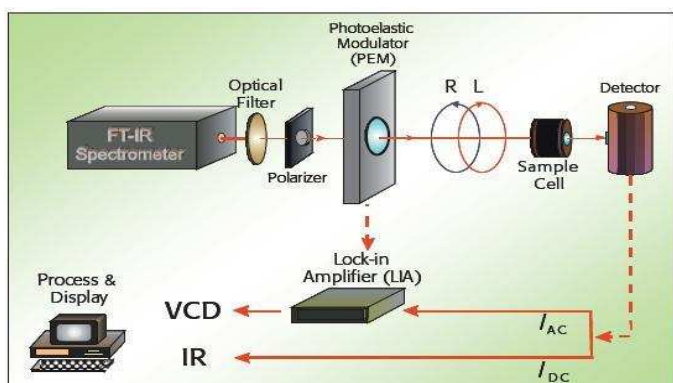
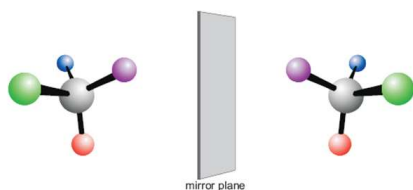
Laboratoire de Physico-Chimie Moléculaire, UMR 5803 du CNRS, Université Bordeaux I, France



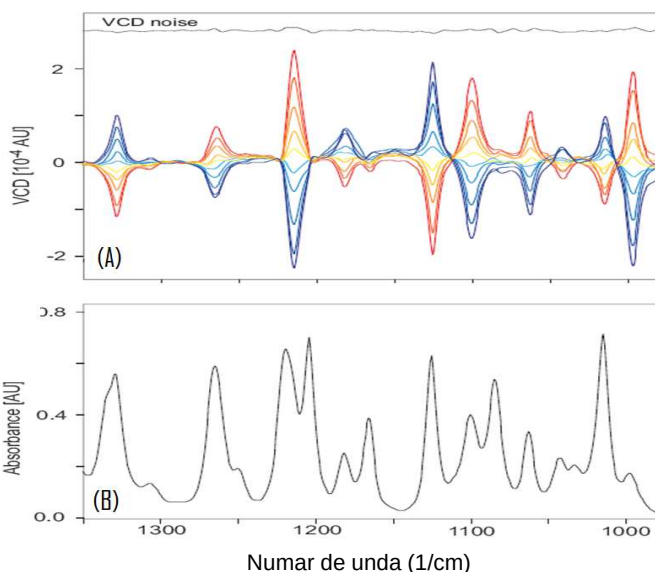
Laboratory of Molecular Spectroscopy, Institute of Chemistry, Eötvös University, Budapest, Hungary

Aplicatii Practice / Potentiali Utilizatori

Potentiali beneficiari: industriile farmaceutica, alimentara, agrochimia, biologia moleculara



Schema de principiu a spectrometrului V-CD



Spectrele de dicroism circular (A) si de absorbtie (B) ale (1R)-(+)- si (1S)-(-)-pinenei cu diferite valori ale fractiei de enantiomer de la albastru spre rosu (grosime de strat 50µm, cuva KBr)