

## SOLID SAMPLING IN CD

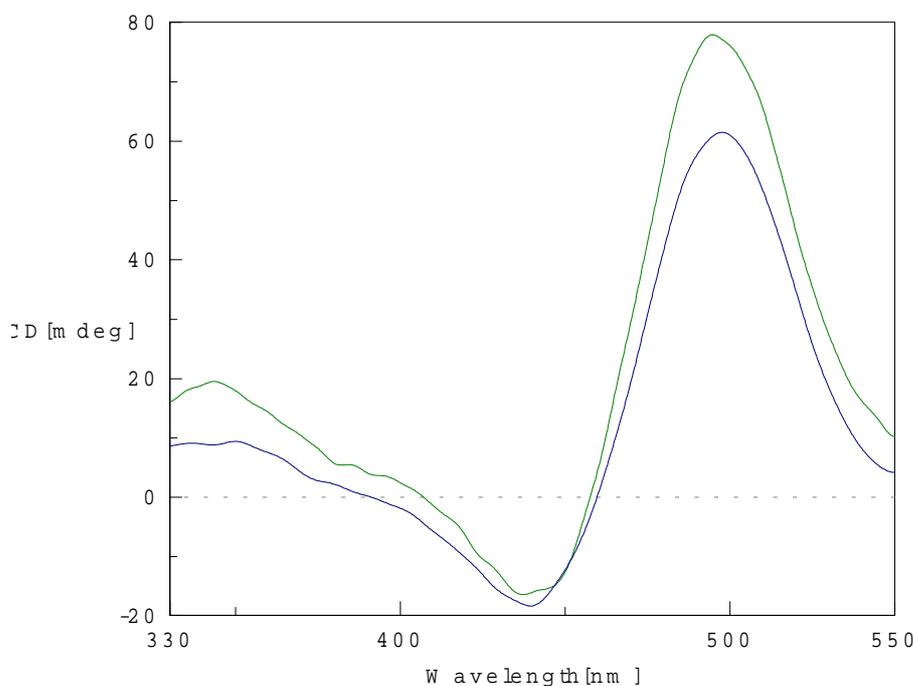
A short article has been printed on CHIRALITY 12:291-294 (2000) authors are myself and Dr Paolo Albertini of Jasco Europe, the content was presented as a poster at 7th International Conference on Circular Dichroism held in Mierki (Poland) last year.

It describes a simple integrating sphere accessory to measure CD from scattering and solids samples both in transmission and reflectance mode.

At that time we arranged this accessory in a very simple (and cheap) way, the target was to prepare a sample space unit easy to fit and to remove without changing physically the position of the photomultiplier tube, in order to verify the suitability of the method.

Results reported are not bad at all (a model sample was used in many different ways, sampling it in solution, in CsI pellets or even directly; using transmission, scattered transmission and diffuse reflectance modes).

Clearly the design can be optimised easily if application is mainly diffuse reflectance, putting a dedicated sphere with its own detector in a demountable housing. Horizontal sampling with direct sample irradiation without any mechanical support could be achieved in this way.



Above spectra refer to same CsI pellet of a Co complex run in normal transmission mode (stronger signal) and in diffuse reflectance mode.

Alternative sampling way for solids (in this case limited usually to pellets or films) is by conventional IR look-alike pellet techniques. Continuously rotating pellet holders can be further provided to improve sampling homogeneity.