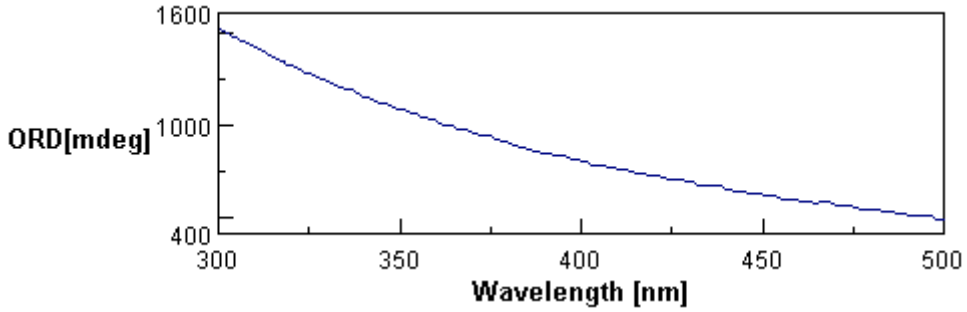
**TECHNICAL REPORT N° 100** **November 2003**

## SPECTRA CONNECTION

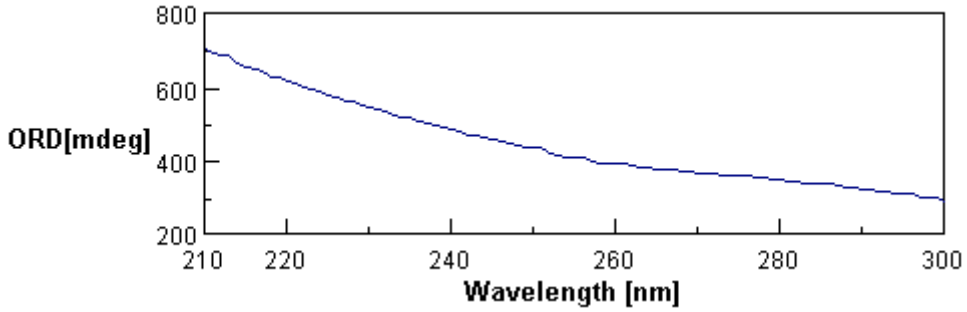
In both CD and ORD it's a common practice to scan the whole wavelength range of interest using different sample concentration and/or cell pathlength.
By after-run data processing you can normalize the data (for CD more used scales are *[Θ] molar ellipticity* or *Δε molar circular dichroism*), for publication.
At this point it's necessary to paste the two (or more) individual spectra to create a single file.

This is now possible with the new *Spectrum Connection* software available for JASCO Spectra Manager®.

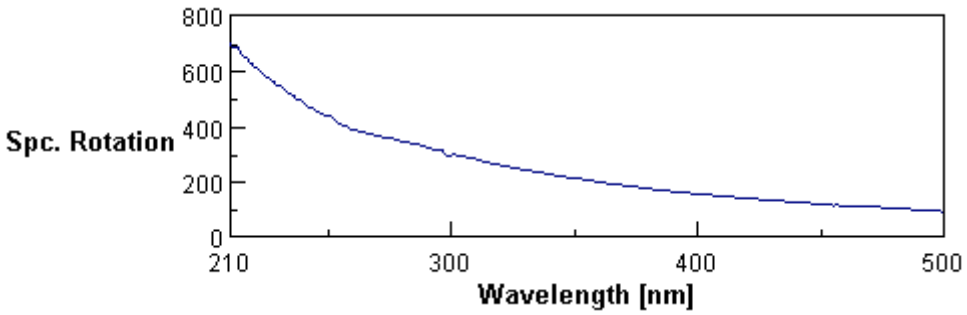
Let's see a simple example, we will use ORD data of sucrose obtained with ORDE accy.
First spectra was obtained for a 5%(W/v) water solution in a 1cm path cell.




To further extend measurement in the UV (the ORDE is limited to about 2° f.s.), sample had to be diluted.
Second spectra is related to a 1%(w/v) solution.




At this point, by data processing, we converted both spectra in specific rotation scale **[α] = α/(100xCx l)**
And pasted the data to obtain a single file as follows:




Simple and effective!

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