

Circular Dichroism

A benchmarking study

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Leader of benchmarking study: Nikola P. Chmel

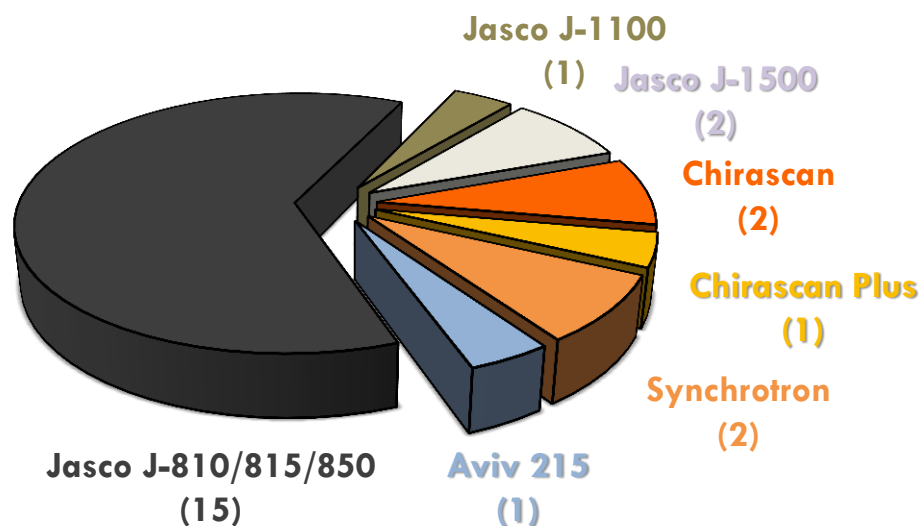
University of Warwick

general setup

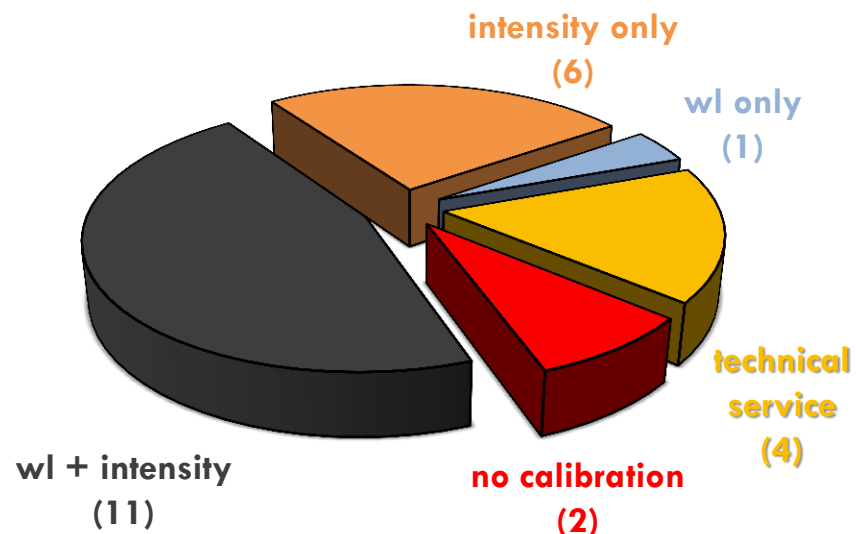
- four samples, sent to 34 labs all over Europe:
 - lysozyme
 - (R,R)-Na[Co(EDDS)] / (S,S)-Na[Co(EDDS)]
 - water
- measurements were carried out twice: individual laboratory SOP and provided SOP
- samples were returned and re-measured to ensure their integrity (87.5 % were stable)



instrumentation

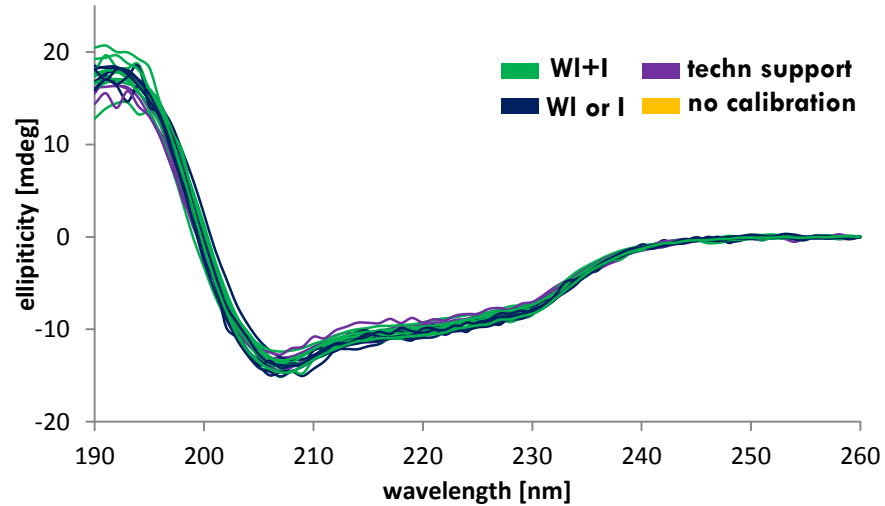


calibration

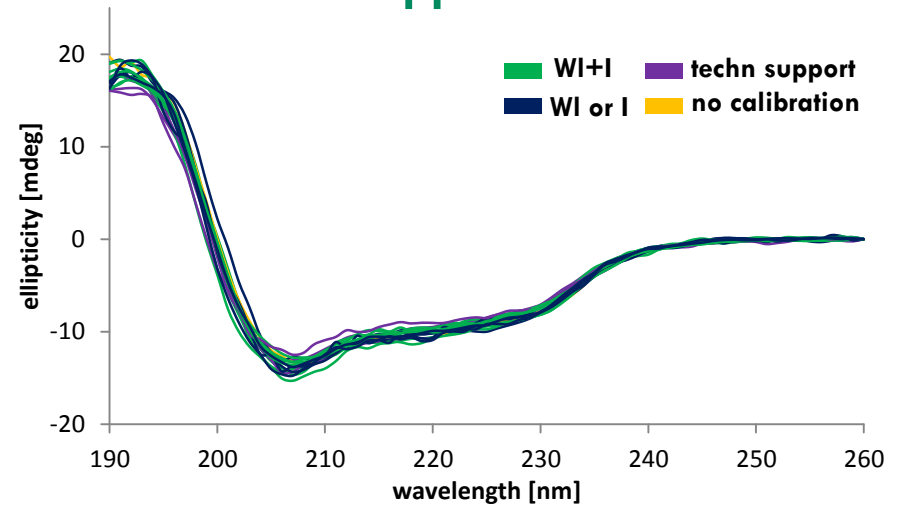


results - lysozyme

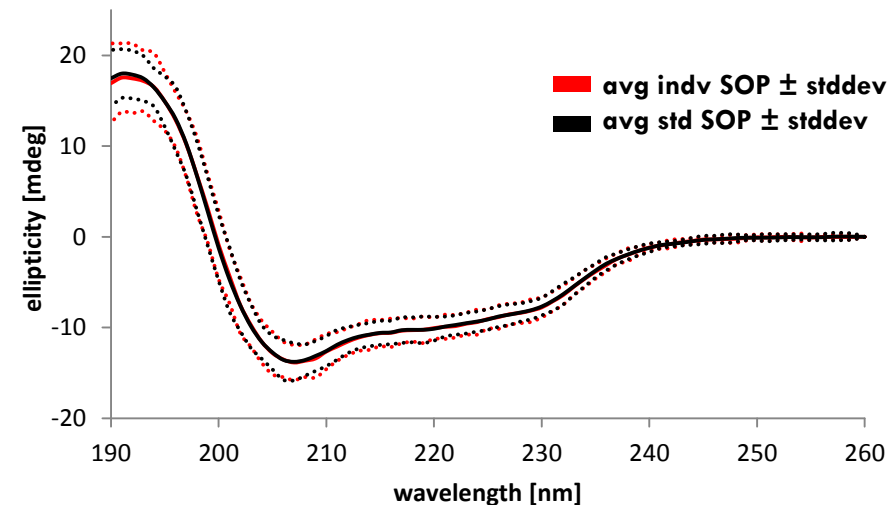
individual SOP



supplied SOP



summary

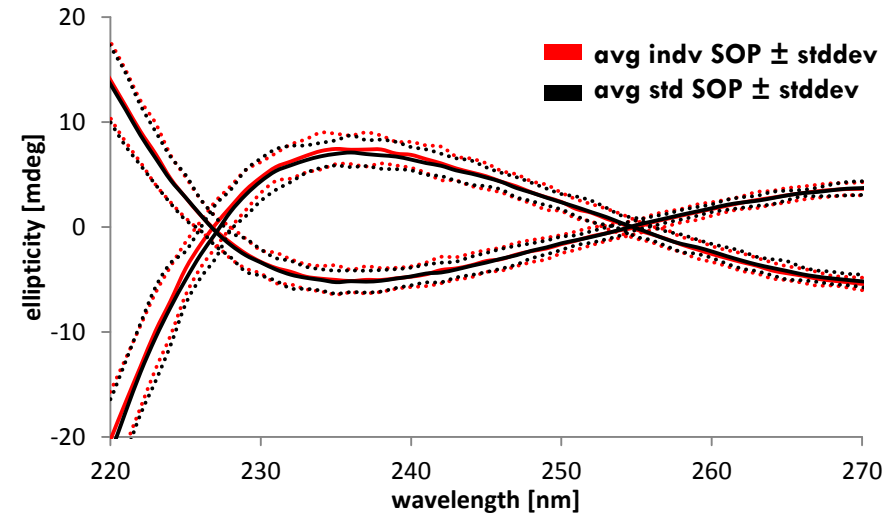


interlaboratory deviations

calibration	deviation [mdeg]	
	indv SOP	sup SOP
wl + intensity	± 0.409	± 0.377
intensity only	± 1.747	± 0.329
technical service	± 0.617	± 0.543

results – Na[Co(EDDS)]

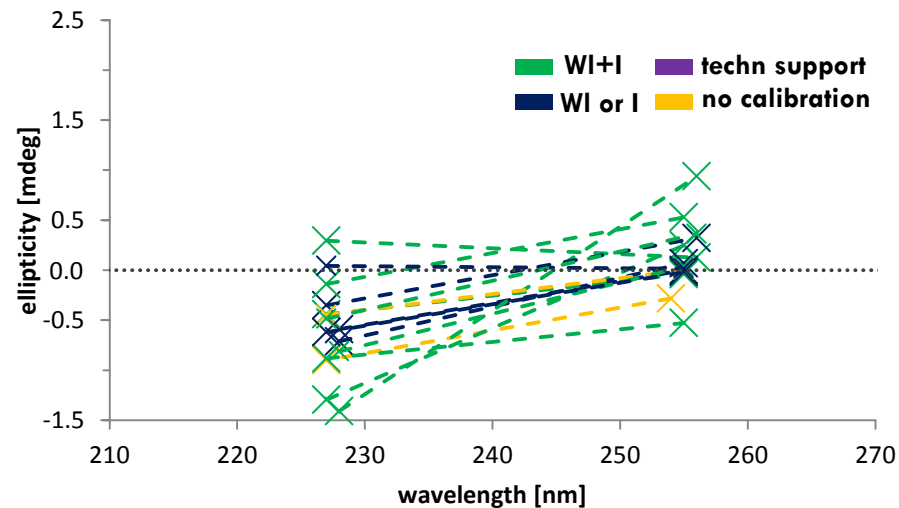
summary



interlaboratory deviations – (S,S)-Na[Co(EDDS)]

calibration	deviation [mdeg]	
	indv SOP	sup SOP
wl + intensity	± 0.403	± 0.321
intensity only	± 1.422	± 1.438
technical service	± 0.447	± 0.499

individual SOP - baseline



supplied SOP - baseline

