Methods, IPH, Müller

VCD Spectroscopy	Model:	*Bruker Tensor 27 IR spectrometer with PMA 50 VCD Module (MCT Detector)*
	Unit and Room:	*Pharmaceutical Chemistry, 02.043/047*
	Responsible:	*Dr. Steffen Lüdeke*
	Further information:	

Short Description:	Picture of the Equipment
FTIR spectrometer with VCD side bench including ZnSe photo elastic modulator and lock-in amplifier.	
Available Experiments/Techniques: Vibrational circular dichroism on solids, neat liquids and solution samples. Instrument can also be used as stand alone FTIR in transmission and diamond ATR experiments.	

Special Equipment:
150 µL volume KBr cells for standard non-aqueous measurements. 20 µL volume BaF2/CaF2 cells on request.

Measurements on the equipment are currently done by:	☐ Students ☐ Students after Introduction ☒ Students after extensive training ☒ Trained scientific service personal
Recent Publications, where this instrument was important (optional): Give citation	Adv. Synth. Catal. 2009, 351, 253-259.
Typical problems that may be solved with this instrument:	*- determination of absolute configuration in combination with quantum chemical prediction of VCD spectra* *- elucidation of secondary structure of peptides and proteins* *- estimation of enatiomeric excess* *- detection of supramolecular chirality*