Methods, IOCBC, Einsle

Differential	Model:		GE Healthcare / Microcal VP-DSC
Scanning			capillary scalling calorimeter
Calorimetry	Unit and Room: Responsible: Further information:		Biochemistry, 9th floor, R.910 Dr. Stefan Gerhardt, 203 5970 http://portal.uni- freiburg.de/xray/equipment
Chart Description:	<u> </u>		
Short Description: The VP-Cap DSC is an autosampling differential scanning microcalorimeter. The reference and sample cells are fixed in place capillary shaped vessels with effective volumes of approximately 130 µl. The cells are constructed from a tantalum alloy and protrude out of the adiabatic chamber via their two 1.5 mm (inner diameter) access tubes. The approximate volume of each pair of cell stems is 120 µL. Available Experiments/Techniques: The VP-Cap DSC operates in the temperature range of -10° to 130° C and is capable of scanning with no external heating/cooling source. Scanrates are user selectable and fall in the range of 0°/hr to +250°/hr For scanning solutions above their boiling point, the VP-Cap DSC has a self-contained pressurizing system allowing positive pressures from 0 - 2 bar.		<image/>	
Special Equipment:			
Measurements on the equipment are currently done by:		St St St Tr	udents udents after Introduction udents after extensive training rained scientific service ersonal
Recent Publications, where this instrument was important (optional): Give citation			
Typical problems that may be solved with this instrument:		- The foldir - Scr incre muta	ermal stability of a sample, in particular ng and unfolding events in proteins. reening for protein variants with eased or decreased thermal stability in a ant screen.