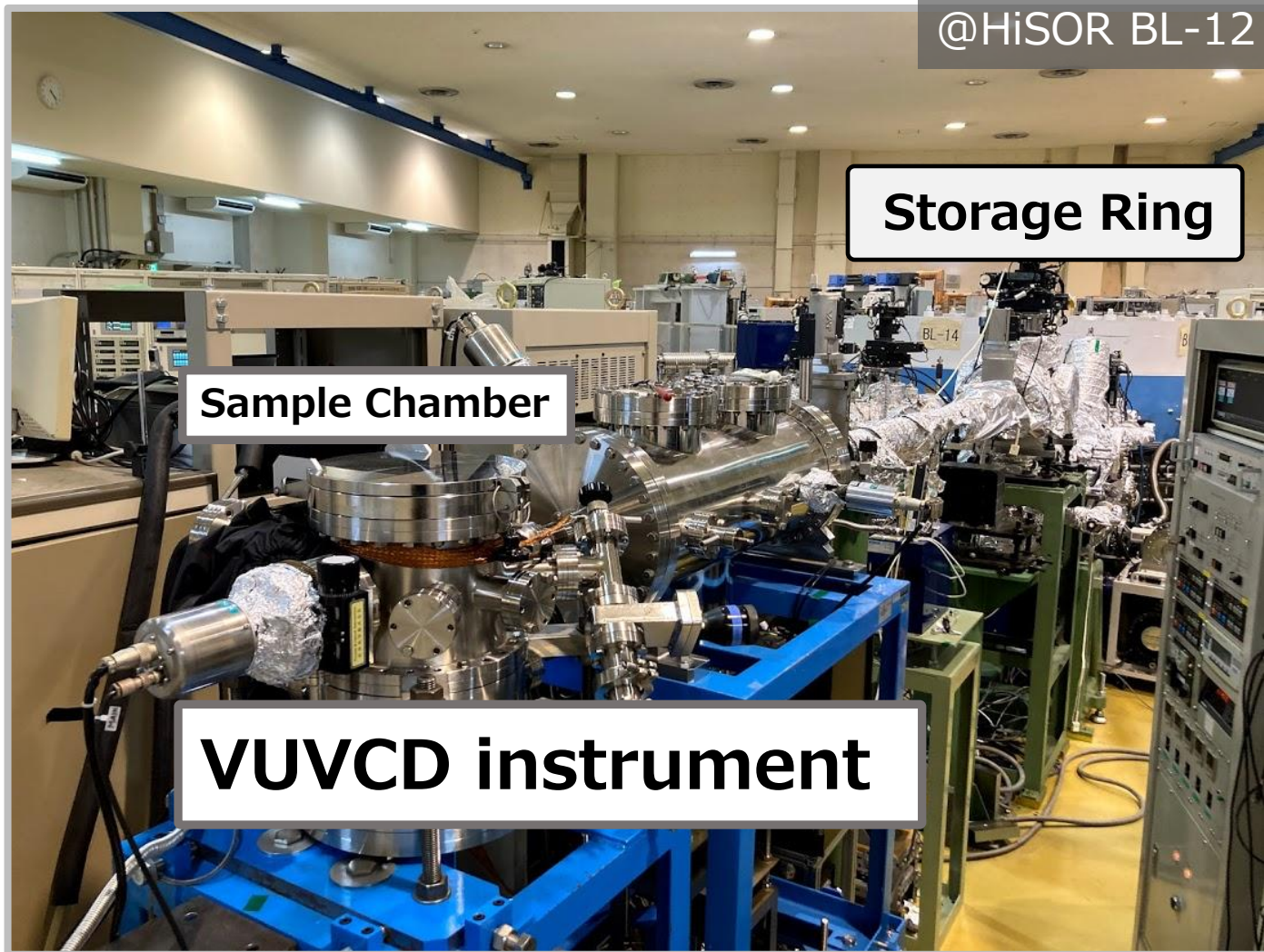




# Vacuum-Ultraviolet Circular Dichroism Spectroscopy Beamline 12 (BL-12)

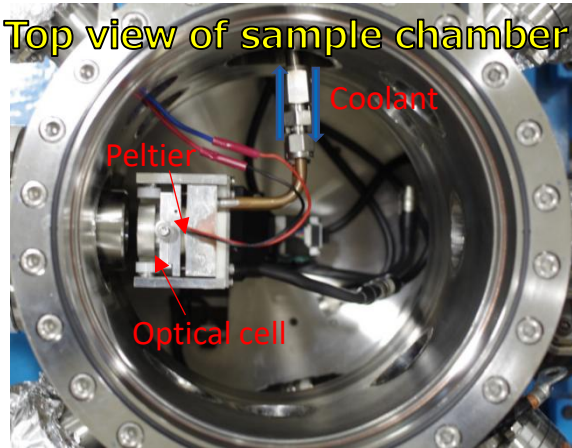
**For Structural Characterization of Biomolecules in Solution**



**Available Energy Region: 620 nm to 120 nm**

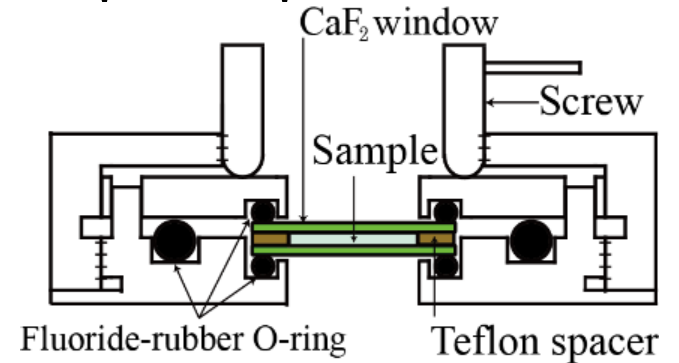
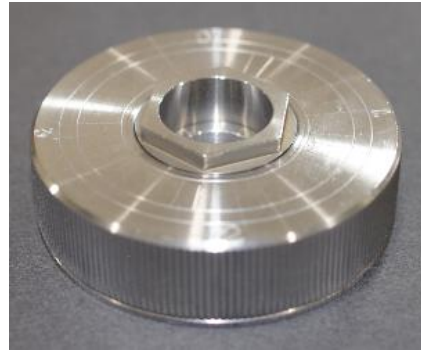
# VUVCD Instrument and its Measurement Systems

Top view of sample chamber

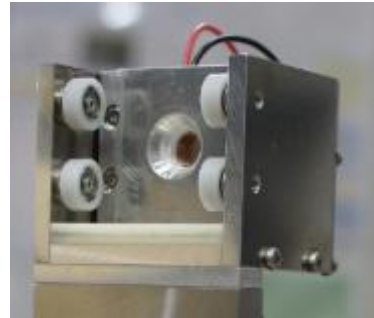
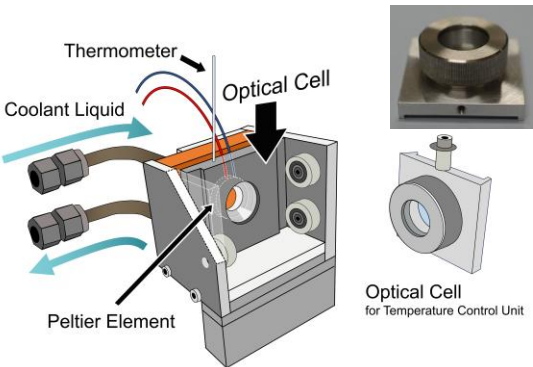


## Optical Cell (Normal)

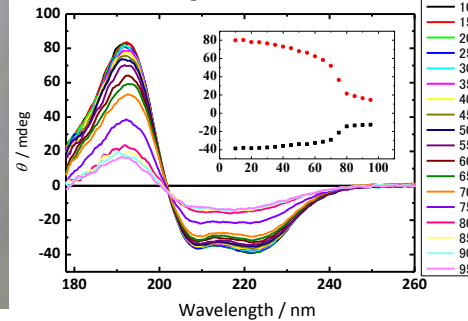
Pathlength :  $1.3\mu\text{m} - 100\mu\text{m}$



## Temperature Control Unit (-20°C - 100°C)



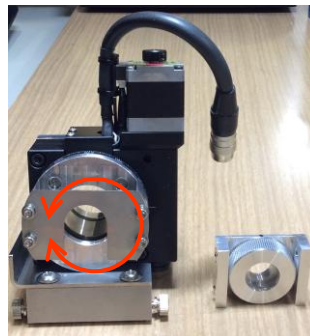
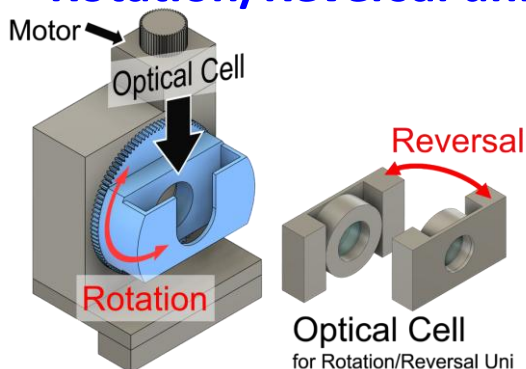
## Heat denaturation of protein



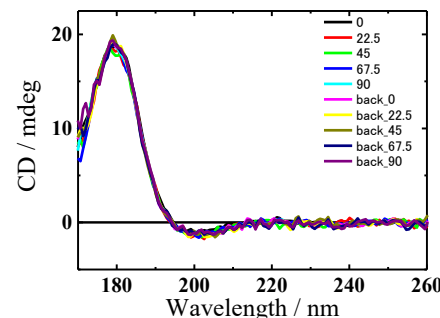
## Flow cell



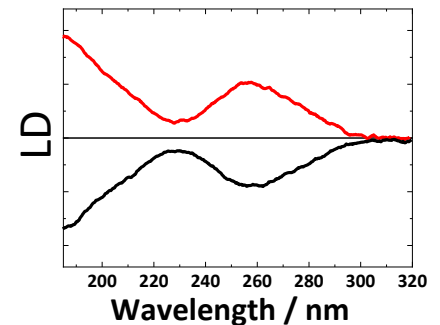
## Rotation/Reversal unit (for solid sample)



## Confirmation of artifact



## Orientation of DNA



# Time-Resolved Cell

**SHM** Staggered Herringbone Mixer

