

## One-drop CD spectra measurement of organic compounds and metal-complexes using Micro sampling disk

### Introduction

CD spectra measurement can be used for spectra measurement of organic compounds and metal-complexes. In this note, we show several CD spectra data concerning organic compounds having an absorption in the UV region and metal-complexes having an absorption in the UV/Vis region.

**Keywords:** One-drop measurement, Circular Dichroism, Organic compound, Metal-complex

### Results

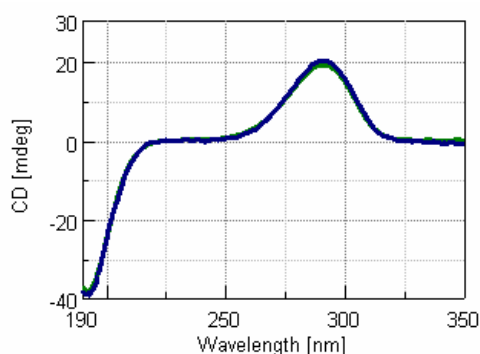


Fig. 1 (1S)-(+)-10-Camphorsulfonic acid, ammonium salt

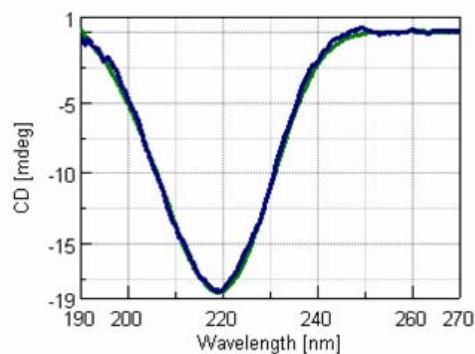
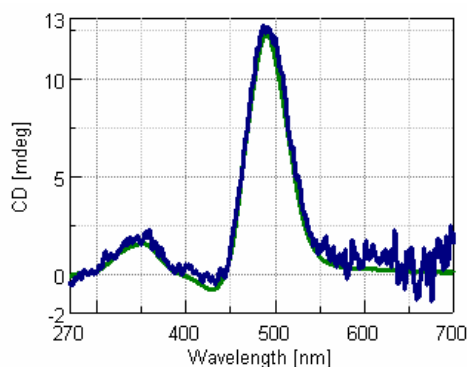
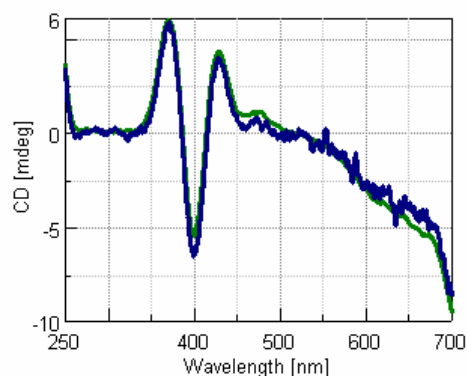


Fig. 2 D-Pantolactone

Micro sampling disk (MSD) : — Conventional cell: —

|   |   |
|---|---|
| Sample volume: 10 $\mu$ L(MSD), 400 $\mu$ L (Conventional cell) | Path length: 1 mm,                                      |
| Bandwidth: 1 nm   | Data Interval: 0.1 nm                                   |
| Response: 2 sec   | Accumulation: 4 times (MSD), 1 time (Conventional cell) |
|   | Scan speed: 100 nm/min                                  |


 Fig. 3 2(+)-<sub>D</sub>-[Coen<sub>3</sub>]Cl<sub>3</sub>NaCl-6H<sub>2</sub>O

 Fig. 4 (0.24M) NiSO<sub>4</sub>+(0.36M) Rochelle salt

Micro sampling disk (MSD) : — Conventional cell: —

|   |   |
|---|---|
| Sample volume: 10 $\mu$ L(MSD), 400 $\mu$ L (Conventional cell) | Path length: 1 mm,                                      |
| Bandwidth: 1 nm   | Data Interval: 0.1 nm                                   |
| Response: 2 sec   | Accumulation: 9 times (MSD), 1 time (Conventional cell) |
|   | Scan speed: 200 nm/min                                  |