

## Highly sensitive detection of DL-flavanone with circular dichroism (CD) detector

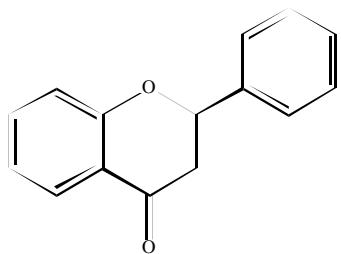
The optically active compound DL-flavanone was detected using a dedicated circular dichroism detector (CD-1595).

Fig. 1 shows optically resolved CD spectrum of 1mg DL-flavanone analyzed using the CD-1595 with stopped flow and the full wavelength range chromatograms. The CD spectrum makes it easy to select the required wavelength.

Fig. 2 shows the CD-1595, OR-990 optical rotation detector and MD-910 diode array detector chromatograms of 0.1mg DL-flavanone.

The CD-1595 can detect the D or L forms with good sensitivity.

**Keywords:** 1.flavanone, 2.STD, 3.CHRALCEL OD, 4.CIRCULAR DICHROISM BASED DETECCCTOR



Flavanone

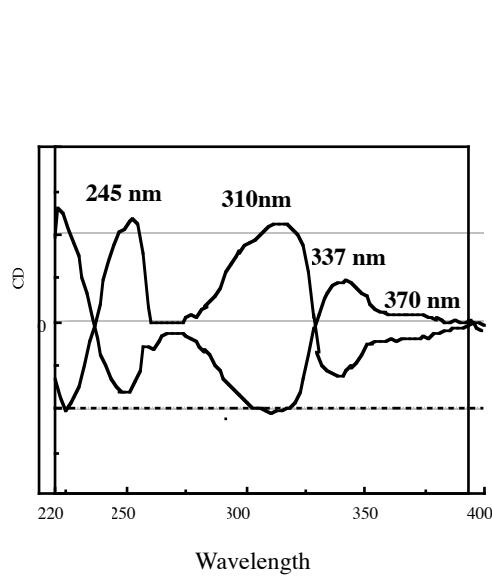


Fig. 1 CD spectrum of DL-flavanone (1 mg) and full wavelength range chromatograms

### Conditions:

Column:	CHRALCEL OD (4.6 mmI.D. x 250 mmL)
Eluent:	n-Hexane/IPA(90/10)
Flow rate:	1.0mL/min
Column temperature:	25 degree celsius
Sample:	DL-flavanone
Injection volume:	10uL

CD-1595	
Scale:	1mV = 1mdeg
Response:	Standard
Polarity:	+

OR-990	
Scale:	1mV = 1mdeg
Gain:	x10
Response:	Standard
Polarity:	+

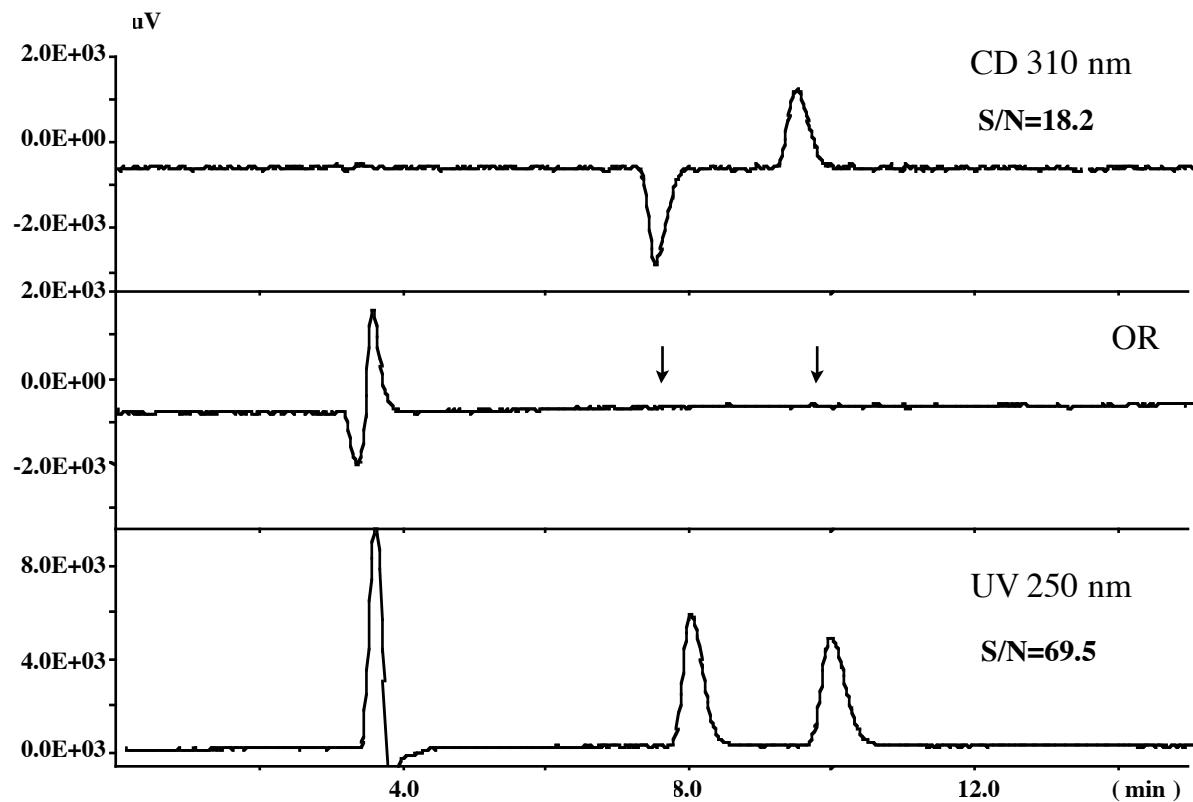


Fig. 2 CD-1595 (310 nm), OR-990 and MD-910 (250 nm) chromatograms of 0.1mg DL-flavonone.