

## Analysis of RED 204 in lipstick

Many kinds of pigments are used in cosmetics. Especially large amount of a pigment is used in a lipstick. Measurement of the pigment in the lipstick is very important for quality control. RED 204 in the lipstick was analyzed. Before analysis of the sample by HPLC, the pretreatment of the sample was done as follows.

50mg of lipstick was dissolved into 5mL of methanol and after extraction of pigment, the solution was run by centrifuge with 3500rpm for 10 min. Then 30<sub>L</sub> of supernatant was injected into HPLC.

Fig.1 shows the chromatogram obtained by injecting 30ul of the standard sample RED 204 (1.0mg/mL).

Fig. 2 shows the chromatogram of the lipstick sample after the pretreatment. Comparisons of Fig.1 and Fig.2 indicates 79mg of RED 204 was included in 1g of the lipstick.

### Conditions:

Detector :	UV/Vis detector
Wavelength :	255nm
Sensitivity :	0.16AU/FS
Column :	Finepak SIL C18
Eluent :	MeOH/0.01M sodium 1-pentanesulfonate, 0.5% H <sub>3</sub> PO <sub>4</sub> (65/35)
Flow rate :	1.0 ml/min
Temperature :	40 degree celsius

