

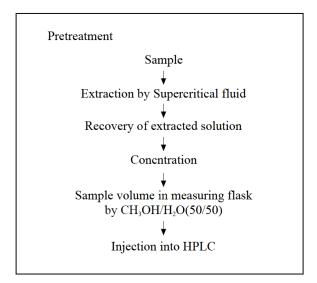
## **Application Note**

No. 820003S-E

## Supercritical Fluid Extraction of Bisphenol A in Epoxy Resin

Bisphenol A considered as endocrine disruptors were extracted using Supercritical Fluid Extraction (SFE) with carbon dioxide and analyzed by reversed-phase HPLC.

Fig.1 shows the chromatograms of the extracts from epoxy resins used for coating of artificial leather, electrical cables, etc..



## Conditions

[SFE]

System: SCF-201
Extraction vessel: 1 mL
CO<sub>2</sub> flow rate: 3.0 mL/min
CH<sub>3</sub>OH flow rate: 0.3 mL/min
Extraction pressure: 25 MPa
Extraction temp.: 80°C

Sample: Synthetic leather

Covering for AC cable

[ HPLC]

Column: CrestPak C18S

(4.6 mm I.D. x 150 mm L.)

Eluent:  $CH_3OH / H_2O (50/50)$ 

Wavelengths: Ex 282 nm, Em 306 nm, Gain x 100

Flow rate: 1.0 mL/min Column temp.: 40°C

Sample: Standard (100 ppb)

Extracts of coating material of artificial

leather and electrical cable

Injection volume: 10 μL

Keywords: Bisphenol A; STD, epoxy resins; SFE; Fluorescence detection; endocrine disruptor

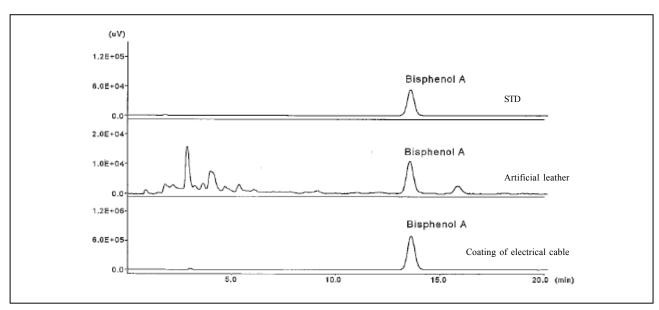


Fig. 1 Chromatograms of bisphenol A-STD sample and epoxyresin extraction sample

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