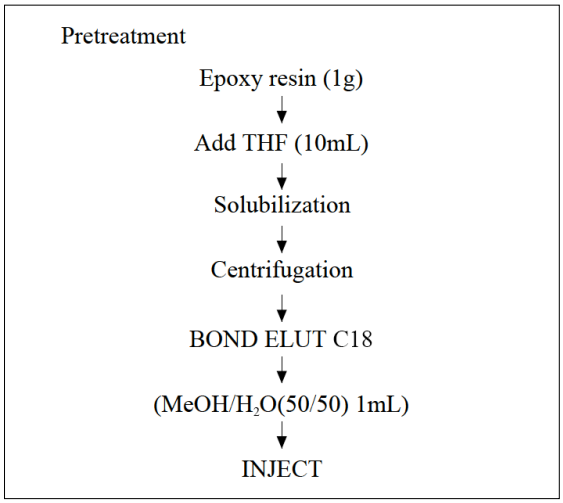
Application Note
Date: 1999.6.28 No. 820011H-E

Analysis of bisphenol A by reversed-phase HPLC

When certain chemicals which can disrupt the body's endocrine system ("environmental hormones") enter the body, amongst other harmful effects they can disrupt the normal actions of hormones, interfere with reproduction and cause malignant tumors to form. One of such chemicals, bisphenol-A was analyzed using revered phase HPLC. Fig. 1 shows examples of the analysis of standard samples as well as samples extracted from synthetic leather and the insulating plastic of electrical cable.

Conditions:

Column:	CrestPak C18S (4.6mm I.D. x 150mmL)
Eluent:	CH_3OH / H_2O (50/50)
Wavelength:	Ex 282nm, Em 306nm, Gain x1000
Flow rate:	1.0ml/min
Column temperature:	40 degree celsius
Sample:	STD (1ppm) Synthetic leather Covering for AC cable
Injection volume:	10µl



Keywords: 1.Biosphenol A, 2.STD, epoxy resins, 3.ODS, 4.FL, 5.Endocrine disrupting chemicals

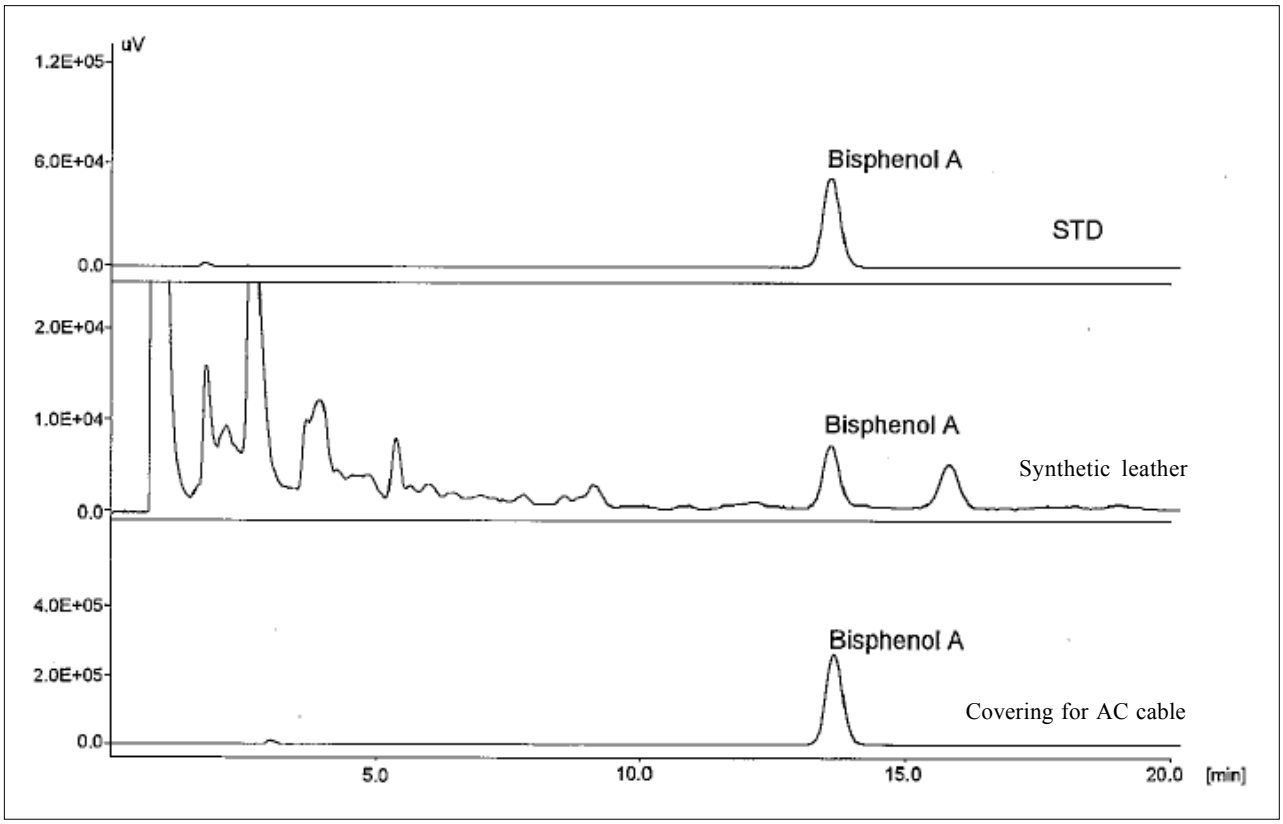


Fig 1. Chromatograms of bisphenol-A standard samples and extracted from resin

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