Application Note

Date: 1999.6.28 **No. 747005H-E**

Analysis of indometacin using direct injectionin of rat plasma

When analyzing for drugs in biological samples such as blood plasma, preparation by deprotenization is usually required.
In the present report, indomethachin in rat plasma was analyzed by online deprotenization using a deprotenization column with column switching.
Fig. 1 shows the chromatogram of rat plasma spiked with indomethachin standard (1.0 mg / ml).

Keywords: 1.Indometacin, 2.rat plasma, 3.CrestPakC18T-5, 4.UV, 5.column switching

Conditions:

Pretreatment Column:	CAPCELL PAK MF Ph-1, (4.6mm I.D. x 50mmL)
Pretreatment Eluent:	100mM Na_2HPO_4 (pH6.9) / CH_3CN (87/13)
Flow rate:	1.0mL/min
Switching time:	5.7~7.3min
Separation Column:	CrestPak C18T-5 (4.6mm I.D. x 250mmL)
Eluent:	100mM Na2HPO4 +20mM SDS (pH2.3)/CH_3CN (50/50)
Wavelength:	254nm
Range:	0.001AU/10mV
Column temperature:	40 degree celsius
Injection volume:	20uL
Sample:	Indometacin STD + rat plasma (1.0ug/mL)

Pretreatment

rat plasma
↓
Centrifugation(3000rpm. 10min)
↓
Filter with 0.2 μm membrane filter
↓
Add Indometacin STD(1.0 μg/mL)
↓
INJECT

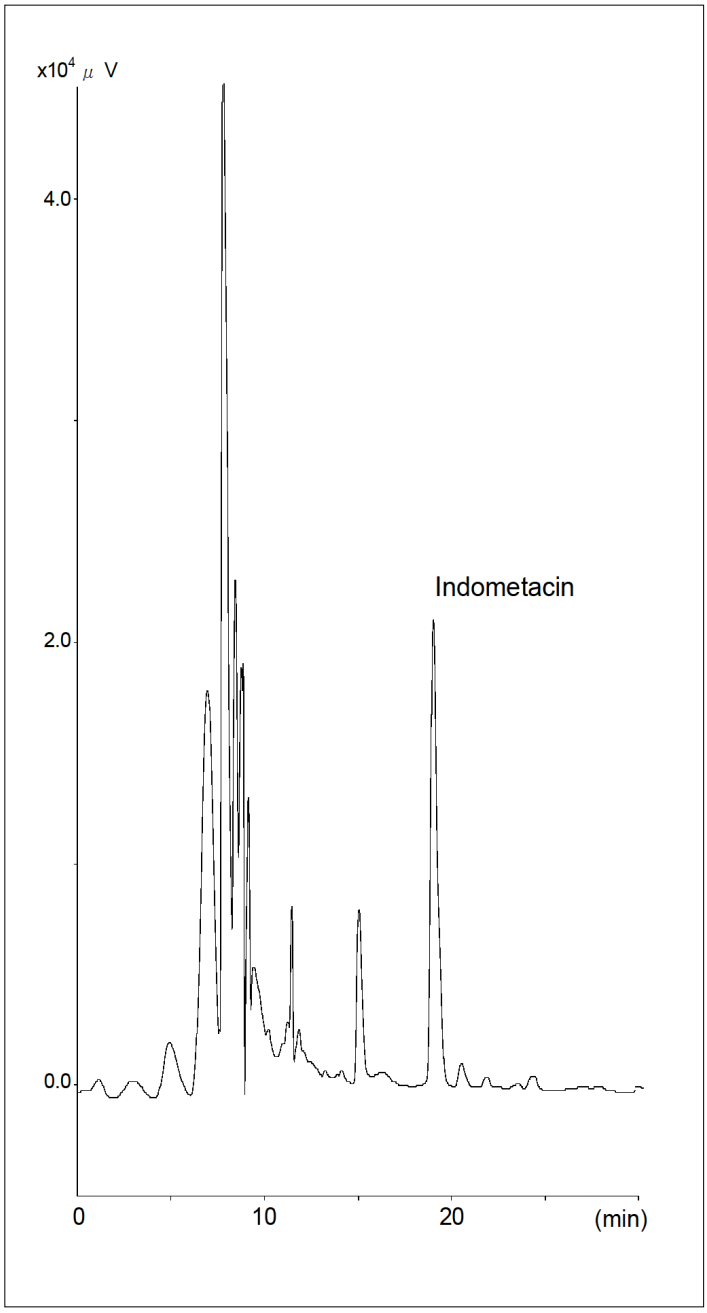

Fig. 1 chromatogram of indomethachin (standard added at 1.0 mg / ml) in rat plasma.

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