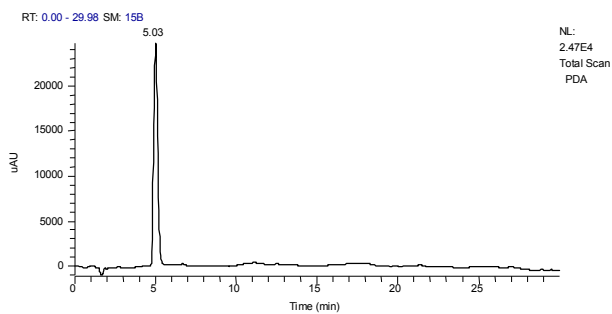


# Mightysil RP-18MS

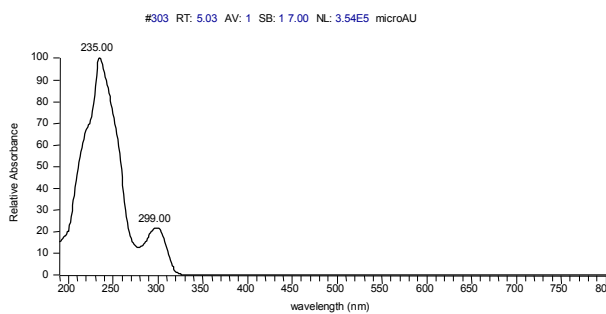
## Application Data Vol. 3



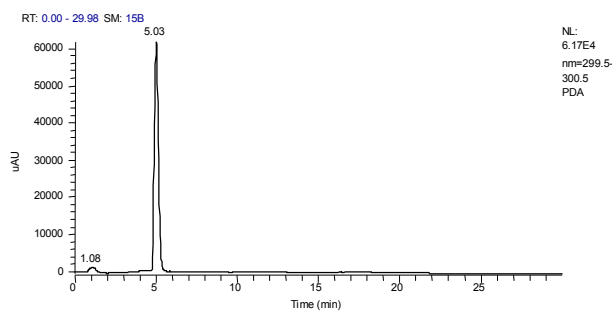
### Olopatadine hydrochloride -antiallergic agent- by LC/MS



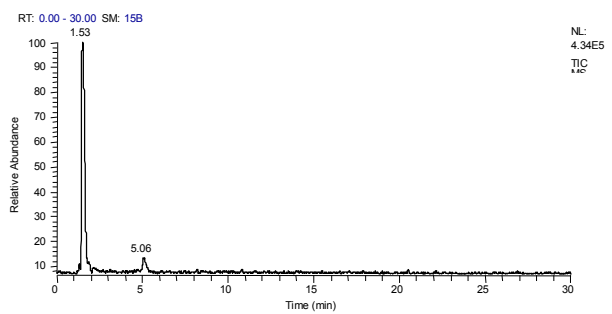
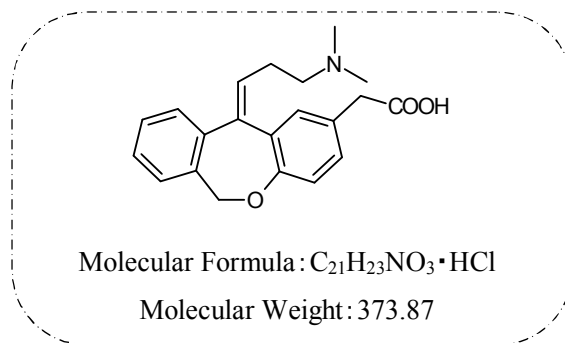
PDA (190~800nm)



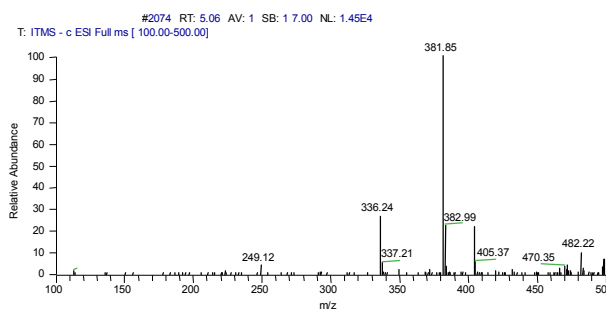
Absorption spectrum



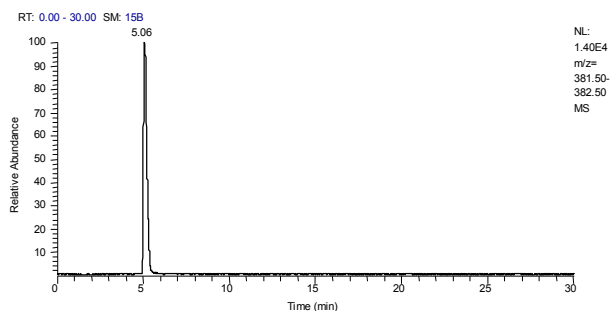
PDA 300nm



TIC ESI-



Mass spectrum



SIM m/z=382

Column: **Mightysil RP-18MS** 150-2.0 (5 $\mu$ m)  
Eluent: 0.1vol%Formic acid-Acetonitrile/0.1vol%Formic acid-Water  
=25/75

Flow rate: 0.2mL/min  
Detector: PDA(190~800nm)  
ESI(TIC: Negative)

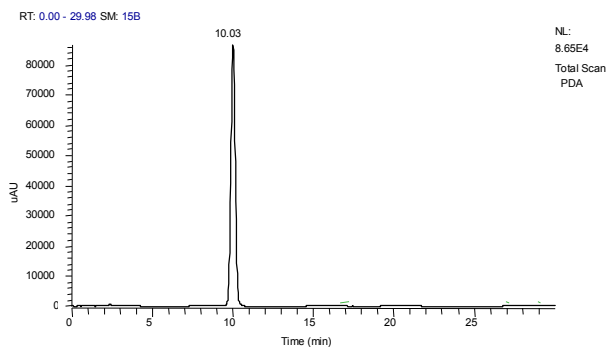
Temp.: 40°C

Inj. Vol.: 1 $\mu$ L

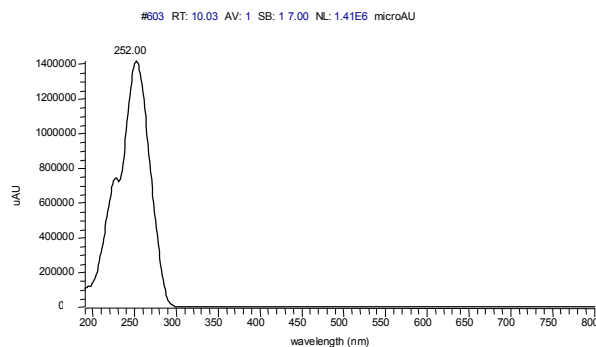
Sample: Olopatadine hydrochloride (0.1mg/mL)  
\*One tablet of drug dissolved to 50mL of eluent and filtered with 0.2 $\mu$ m PVDF membrane.

# Felbinac - nonsteroidal anti-inflammatory drug-

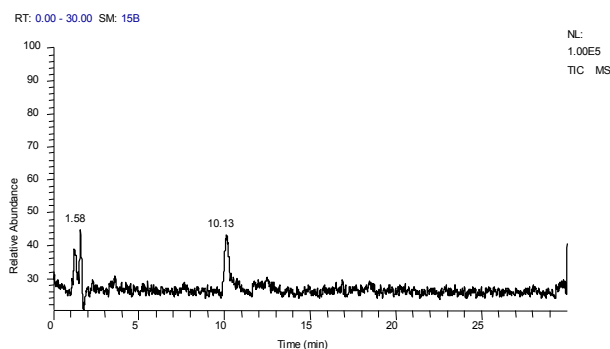
by LC/MS



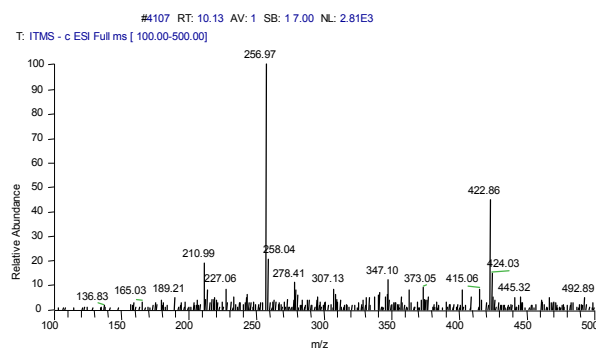
PDA (190~800nm)



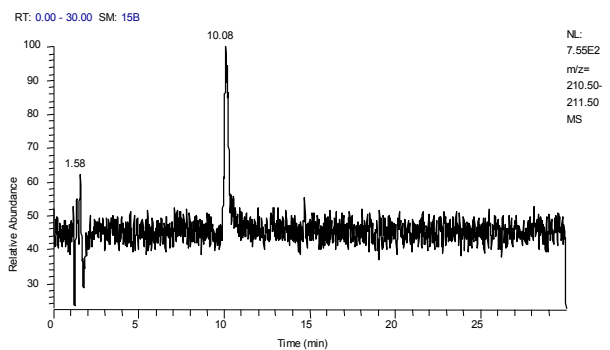
Absorption spectrum



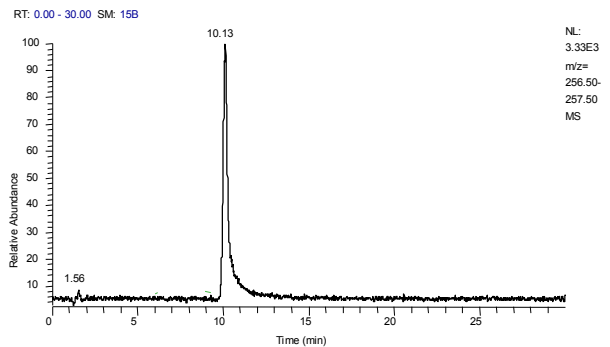
TIC ESI-



Mass spectrum



SIM m/z=211



SIM m/z=257

Column: **Mightysil RP-18MS** 150-4.6 (5 $\mu$ m)  
 Eluent: 0.1vol%Formic acid-Acetonitrile/0.1vol%Formic acid-Water  
 =40/60

Flow rate: 1.0mL/min.

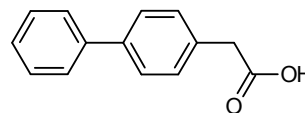
Detector: PDA(190~800nm)  
 ESI (TIC: Negative)

Temp.: 40 $^{\circ}$ C

Inj. Vol.: 5 $\mu$ L

Sample: Felbinac (0.1mg/mL)

\*50mg of drug dissolved to 15mL of eluent and filtered with 0.2 $\mu$ m PVDF membrane.



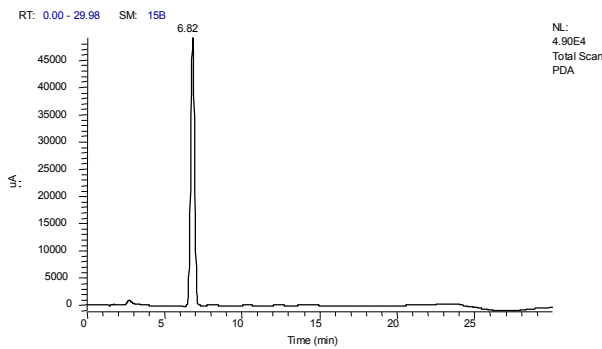
Molecular Formula: C<sub>14</sub>H<sub>12</sub>O<sub>2</sub>

Molecular Weight: 212.25

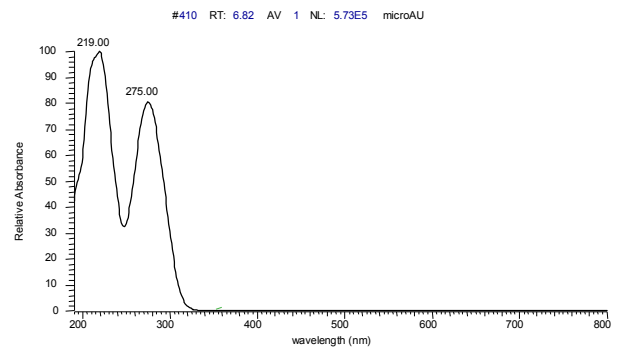
# Diclofenac sodium

-nonsteroidal anti-inflammatory drug-

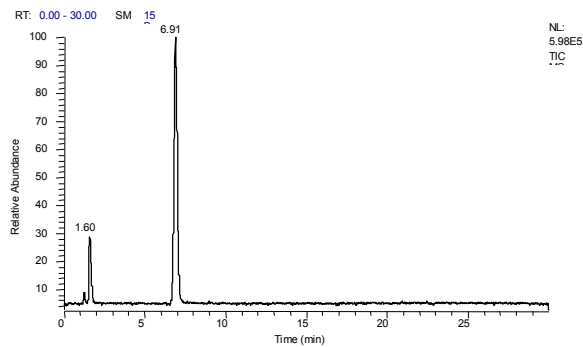
by LC/MS



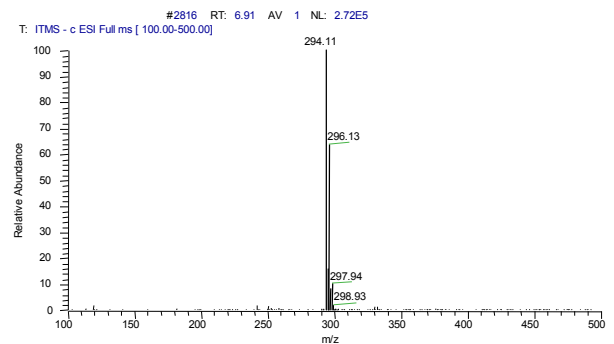
PDA (190~800nm)



Absorption spectrum



TIC ESI-



Mass spectrum

Column : **Mightysil RP-18MS** 150-2.0 (5µm)

Eluent : Methanol/Diluted Acetic acid(100) (3→2500)=70/30

Flow rate : 0.2mL/min

Detector : PDA(190~800nm)

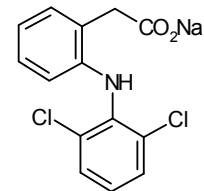
ESI (TIC : Negative)

Temp. : 40°C

Inj. Vol. : 1µL

Sample : Diclofenac sodium (0.1mg/mL)

\*One tablet of drug dissolved to 250mL of eluent and filtered with 0.2µm PVDF membrane.

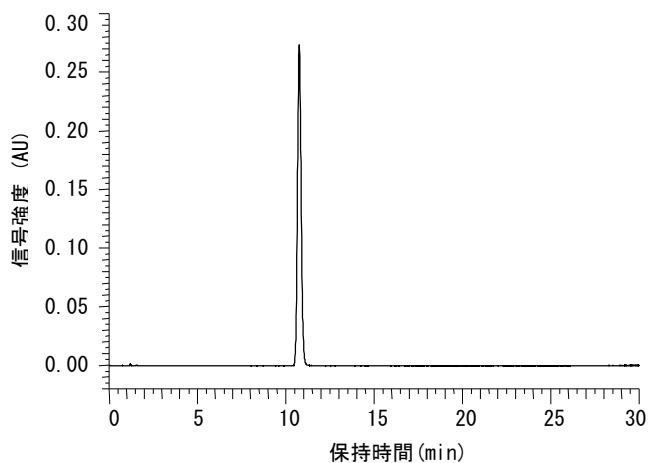


Molecular Formula : C<sub>14</sub>H<sub>10</sub>Cl<sub>2</sub>NNaO<sub>2</sub>

Molecular Weight : 318.14

## Felbinac

-nonsteroidal anti-inflammatory drug-



Column: **Mightysil RP-18MS** 150-4.6 (5 $\mu$ m)

Eluent: 0.1vol%Formic acid-Acetonitrile/0.1vol%Formic acid-Water  
=40/60

Flow rate: 1.0mL/min.

Detector: UV254nm

Temp.: 40°C

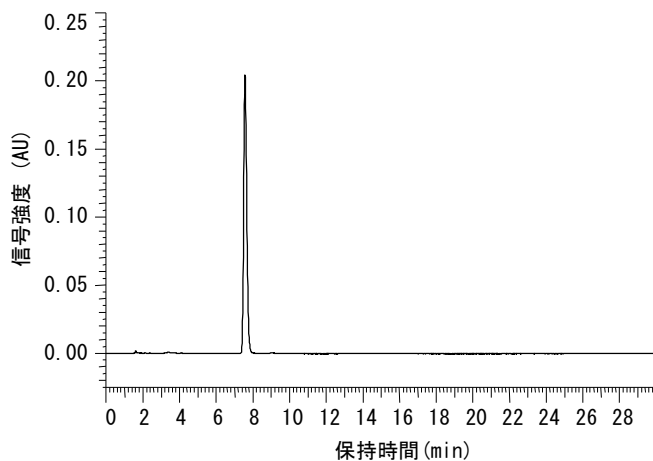
Inj. Vol.: 5 $\mu$ L

Sample: Felbinac (0.1 mg/mL)

\*50mg of drug dissolved to 15mL of eluent and filtered with 0.2 $\mu$ m PVDF membrane.

## Diclofenac sodium

-nonsteroidal anti-inflammatory drug-



Column: **Mightysil RP-18MS** 150-4.6 (5 $\mu$ m)

Eluent: Methanol/Diluted Acetic acid(100)(3 $\rightarrow$ 2500)  
=70/30

Flow rate: 1.0mL/min

Detector: UV240nm

Temp.: 40°C

Inj. Vol.: 10 $\mu$ L

Sample: Diclofenac sodium (0.1mg/mL)

\*One tablet of drug dissolved to 250mL of eluent and filtered with 0.2 $\mu$ m PVDF membrane.