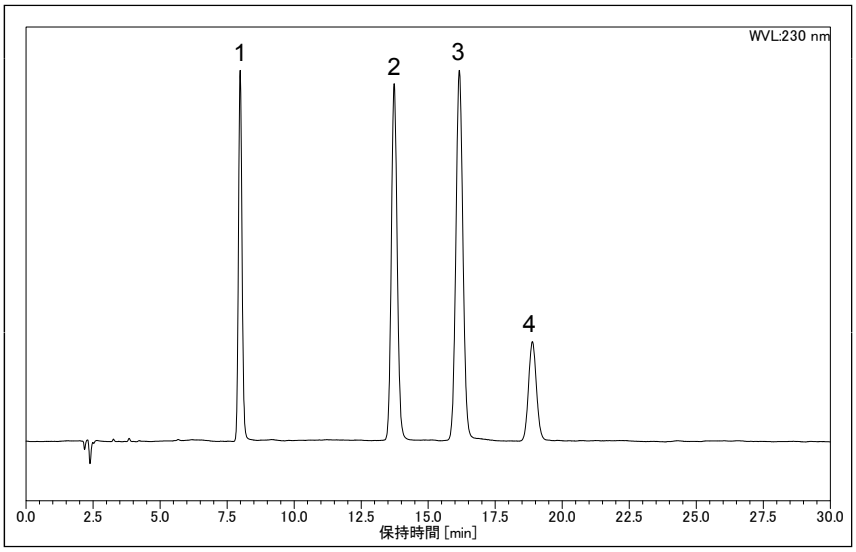
Analysis of pharmaceuticals and crude drugs (1)/医薬品・生薬の分析（1）

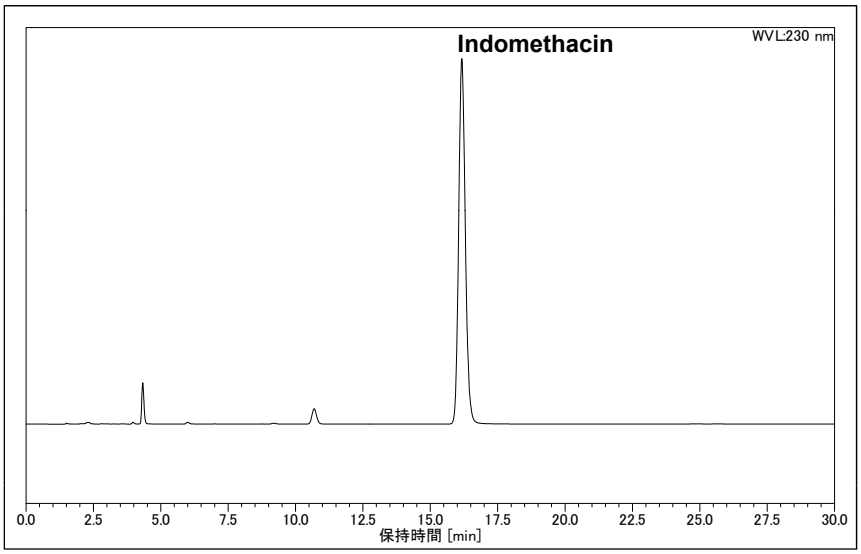
(1) Analysis of indomethacin/インドメタシンの分析

Sample of indomethacin was analyzed. Indomethacin is a nonsteroidal anti-inflammartory drug.
非ステロイド系抗炎症剤の一つであるインドメタシンの分析例を紹介します。



Conditions;
Column: Develosil ODS-HG-5 (4.6x250mm)
Mobile phase: Acetonitrile/0.1%-Phosphoric acid=50/50
Flow rate: 1.0ml/min
Temperature: 30℃
Detection: UV230nm(PDA)
Sample: Ketoprofen/Flurbiprofen Indomethacin/Ibuprofen
Concentration: 10ppm
Injection volume: 20uL
System: DIONEX/Ultimate 3000 Series

Fig.1 Analysis of Indomethacin (Standard)



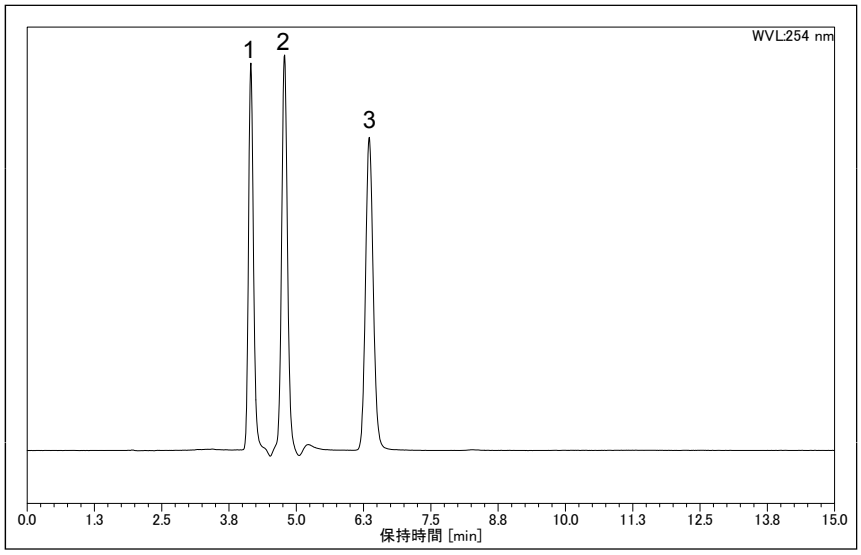
Conditions;
Column: Develosil ODS-HG-5 (4.6x250mm)
Mobile phase: Acetonitrile/0.1%-Phosphoric acid=50/50
Flow rate: 1.0ml/min
Temperature: 30℃
Detection: UV230nm(PDA)
Injection volume: 20uL
System: DIONEX/Ultimate 3000 Series

Fig.2 Analysis of indomethacin of commercial antiinflammatory

(2)Analysis of xathines/キサンチン類の分析

Analysis of caffeine (trimethyl), theobromine, and theophylline (dimethyl) of cantansine was performed on a HILIC column

キサンチン類のカフェイン（トリメチル体），テオブロミン・テオフィリン（ジメチル体）の分析をHILICカラムにて行いました。



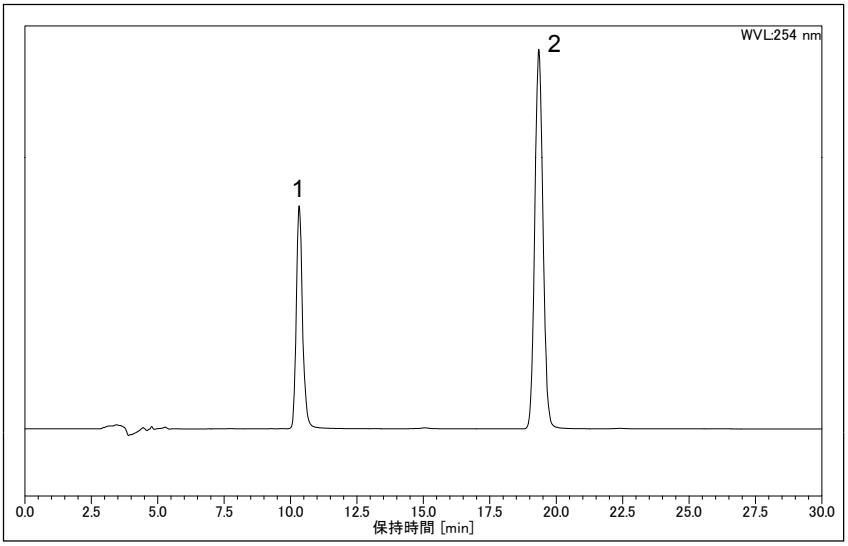
Conditions;

Column: Develosil ANIDIUS (4.6x150mm)
Mobile phase: Acetonitrile/Water=85/15
Flow rate: 0.5ml/min
Temperature: 30℃
Detection: UV254nm(PDA)
Sample: Caffeine/Theobromine /Theophyline
Final Concentration: 10ppm
Injection volume: 10uL
System: DIONEX/Ultimate 3000 Series

Fig.3 Analysis of Xanthine derivative

(3)Analysis of glycyrrhizic acid/グリチルリチン酸の分析

Mobile phases and samples were prepared in accordance to Japanese Pharmacopoeia. 生薬の甘草の主成分であるグリチルリチン酸の分析を行いました。移動相および試料は日本薬局方に従い調製しました。



Conditions;

Column: Develosil ODS-HG-5 (4.6x250mm)
Mobile phase: Acetonitrile/薄めた酢酸 =40/60
Flow rate: 0.7ml/min
Temperature: 23℃
Detection: UV254nm(PDA)
Sample: Glycyrrhizin acid Propyl p-Hydroxybenzoate
Injection volume: 20uL
System: DIONEX/Ultimate 3000 Series

Fig.4 Analysis of Glycyrrhizin

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