

Analysis of Cosmetics/化粧品の分析

Analysis of ingredients in cosmetics was done using Develosil ODS-HG and Develosil RPAQUEOUS-AR

化粧品に含まれる成分の分析例を紹介します。カラムにはDevelosil ODS-HGおよびDevelosil RPAQUEOUS-ARを使用しました。

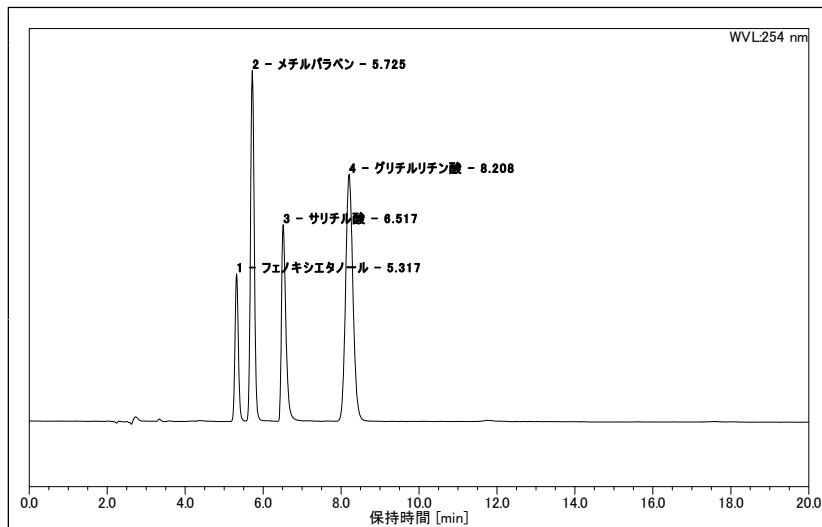


Fig.1 Analysis of ingredient in cosmetics(STD)

Conditions;

Column: Develosil ODS-HG-5
(4.6x250mm)

Mobile phase:

Acetonitrile/0.1%Phosphoric acid=40/60

Flow rate: 1.0ml/min

Temperature: 30°C

Detection: UV254nm(PDA)

Sample: 1. 2-Phenoxyethanol
2. p-Hydroxybenzoate
3. Salicylic acid
4. Glycyrrhizin acid

Concentration: 100ppm

Injection volume: 10uL

System: DIONEX/Ultimate 3000 Series

Analysis was carried out under the same conditions using commercially available cosmetics as samples

市販品の化粧品をサンプルとして、同条件において分析しました。

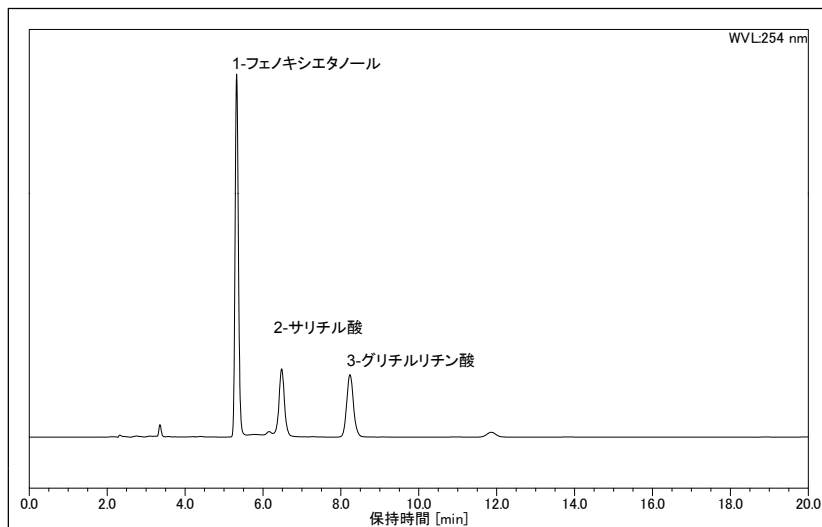


Fig.2 Analysis of ingredient in cosmetics

Conditions;

Column: Develosil ODS-HG-5
(4.6x250mm)

Mobile phase:

Acetonitrile/0.1%Phosphoric acid=40/60

Flow rate: 1.0ml/min

Temperature: 30°C

Detection: UV254nm(PDA)

Sample: Cosmetics

Injection volume: 10uL

System: DIONEX/Ultimate 3000 Series

Develosil Application Data #007

The column was changed from a Develosil ODS-HG to Develosil RPAQUEOUS-AR keeping the same analytical conditions.

使用するカラムをDevelosil ODS-HGからDevelosil RPAQUEOUS-ARへ変更して同様の分析を行いました。

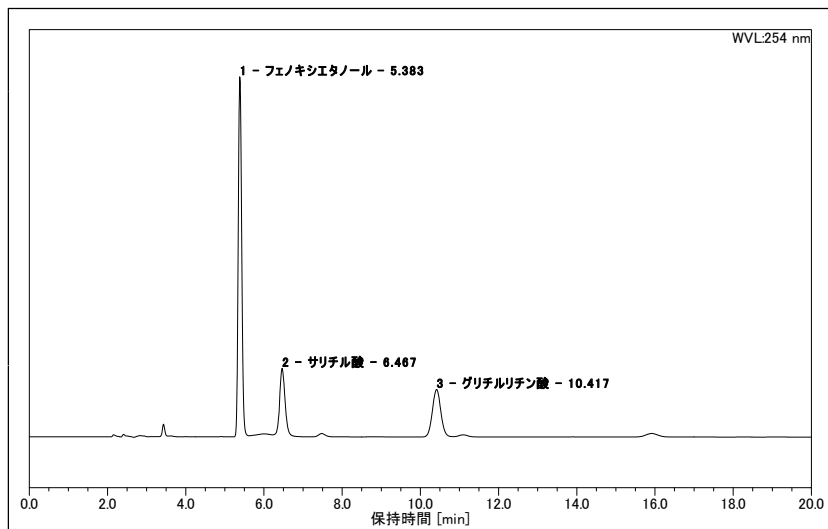


Fig.3 Analysis of ingredient in cosmetics

Conditions;

Column: Develosil RPAQUEOUS-AR-5
(4.6x250mm)

Mobile phase:

Acetonitrile/0.1%Phosphoric acid=40/60

Flow rate: 1.0ml/min

Temperature: 30°C

Detection: UV254nm(PDA)

Sample: Cosmetics

Injection volume: 10uL

System: DIONEX/Ultimate 3000 Series