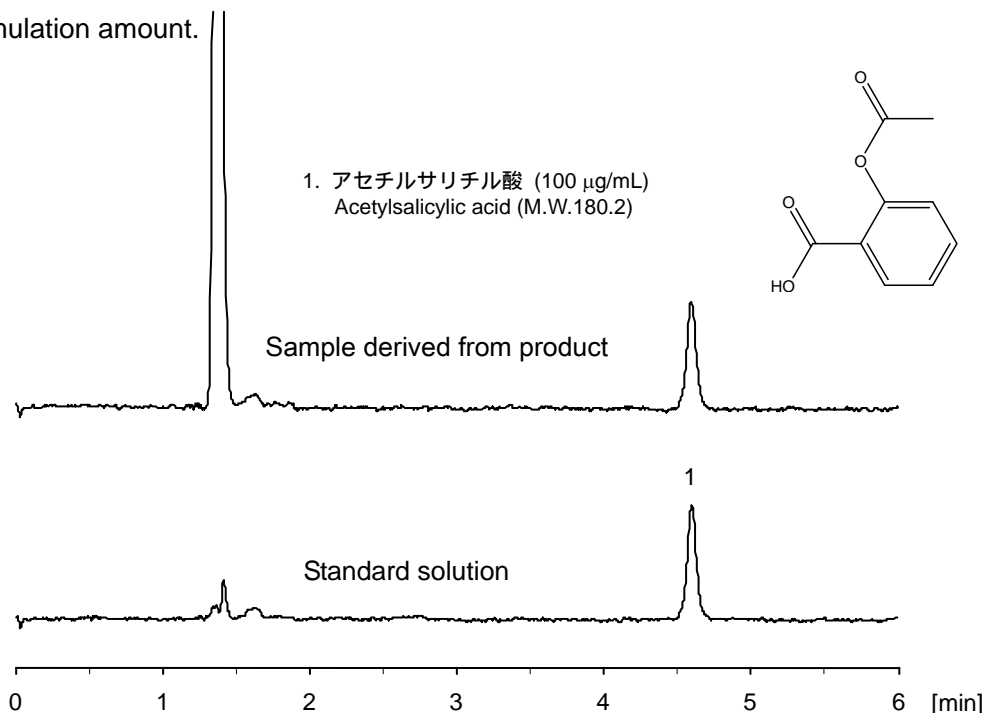


アセチルサリチル酸

Acetylsalicylic acid

NQADにて代表的な消炎鎮痛剤、アセチルサリチル酸を分析しました。NQADは、MSと同様に揮発性の移動相を気化させて検出するため、カラムにはLC-MSにて良好な性能を示すCAPCELL PAK C₁₈ MGIII S3 (4.6 mm i.d. x 150 mm)を用いました。標準溶液と濃度が同じになるように調製された製剤由来の試料からは期待通りのピークが得られました。

Acetylsalicylic acid, one of the most common anti-inflammatory analgesics, was analyzed with a nano quantity analyte detector (NQAD). Since NQAD can detect by vaporizing of volatile mobile phase as well as MS, CAPCELL PAK C₁₈ MGIII S3 (4.6 mm i.d. x 150 mm), or a low-back ground column suitable to LC-MS applications, was chosen here. A sample derived from a pharmaceutical product showed a peak size exactly expected from its formulation amount.



【HPLC Conditions】

| | |
|---------------------|--|
| Column | : CAPCELL PAK C ₁₈ MGIII S3 ; 4.6 mm i.d. x 150 mm |
| Mobile phase | : 0.1 vol% TFA, H ₂ O / CH ₃ CN = 70 / 30 |
| Flow rate | : 1 mL/min |
| Temperature | : 40 C |
| Detector | : NQAD (Evaporation 35 , Nebulizer 30 , Filter 1.3 sec) |
| Inj. vol. | : 1 μL |
| Sample dissolved in | : Mobile phase (The product was dispersed in the mobile phase, so that a final concentration be 100 $\mu\text{g/mL}$.) 1 $\mu\text{g/mL}$ = 1 ppm |