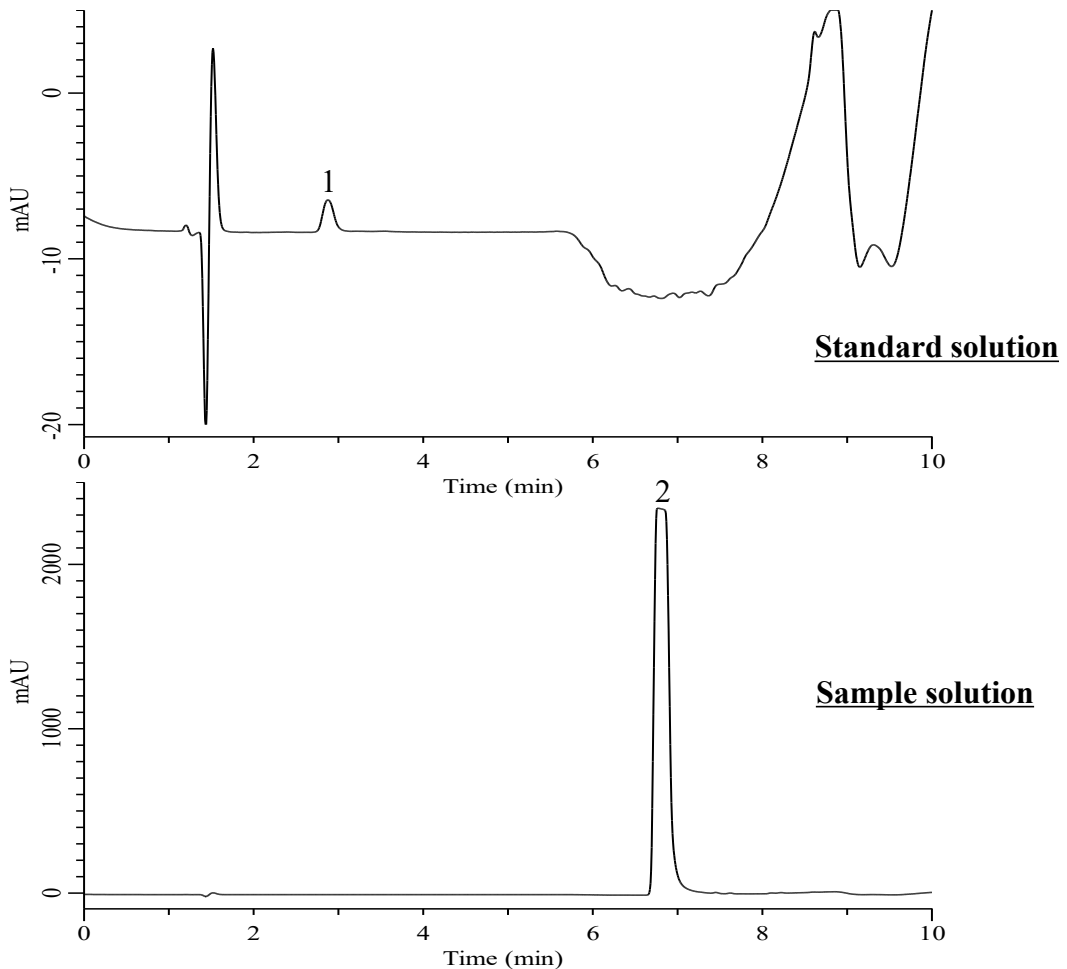


Analysis of Acetaminophen

InertSearch for LC Data No. LC040-1138

(Under the Condition of the USPNF 2023 Issue 1, Acetaminophen, IMPURITIES, Limit of Free 4-Aminophenol)



Conditions

System : Chromaster PLUS (HITACHI)
Column : InertSustainSwift C8 (GL Sciences Inc.)
 (3.5 μ m, 100 x 4.6 mm I.D.)
Column Cat. No. : 5020-90768
Eluent : A) CH₃OH
 B) Solution*

Time(min)	A(%)	B(%)
0.0	1	99
3.0	1	99
7.0	81	19
7.1	1	99
10.0	1	99

Analyte:

1. 4-Aminophenol 1.25 μ g/mL
 2. Acetaminophen 25 mg/mL

Relative retention times

4-Aminophenol :0.42
 Acetaminophen :1.00

RSD of the peak area of 1 (%) (n=6) : 0.78 ($\leq$ 5.0)

Flow Rate : 1.0 mL/min
Col. Temp. : 35 $^{\circ}$ C
Detection : UV 230 nm
Injection Vol. : 5 μ L
Sample : Standard in CH₃OH

*: 1.7 g/L of monobasic potassium phosphate and 1.8 g/L sodium phosphate, dibasic, anhydrous.