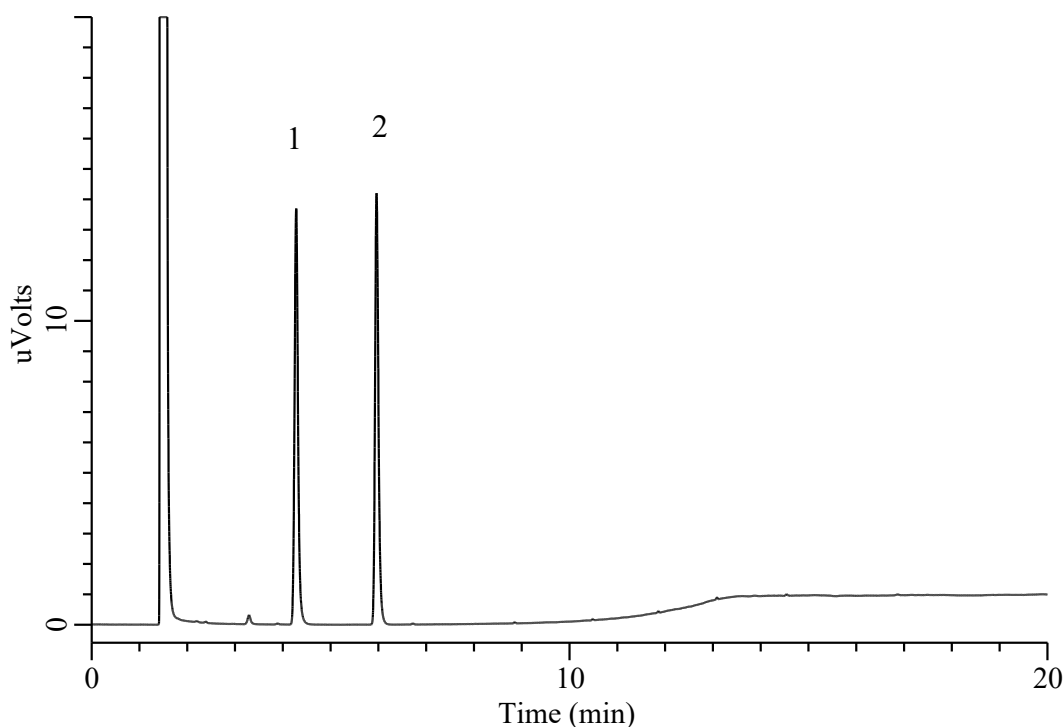


Analysis of Benzyl alcohol

(Under the Condition of the draft for USP-NF, Ciclopirox Cream, CONTENT OF BENZYL ALCOHOL)

(Under the Condition of the draft for USP-NF, Ciclopirox Topical Suspension, CONTENT OF BENZYL ALCOHOL)



Conditions

System : GC-4000 Plus system
Column : InertCap Pure-WAX (GL Sciences Inc.)
0.32 mm I.D. x 30 m df = 0.25 μ m
Col. Cat. No. : 1010-68142
Col. Temp. : 150 $^{\circ}$ C (5min) - 10 $^{\circ}$ C/min - 230 $^{\circ}$ C (7min)
Carrier Gas : He 2.0 mL/min, Constant Flow
Injection : Split 20 mL/min
200 $^{\circ}$ C
Detection : FID Auto Range
300 $^{\circ}$ C
Injection vol. : 1.0 μ L

Analyte

1. Benzyl alcohol 0.2 mg/mL
2. Phenol 0.2 mg/mL
Analyte in $\text{CHCl}_3/\text{CH}_3\text{OH}=80/20$ (v/v)

Relative retention times

Benzyl alcohol : 1.0 (RT=4.278)
Phenol : 1.39 (RT=5.960)

Tailing factor (1) : 1.19 ($\leq$ 2.0)

RSD of
the peak ratio of (1, 2) : 0.09 % ($\leq$ 2.0)