

Sample Preparation

800 μL sample solution mixed with 400 μL urine and 400 μL buffer solution (pH 13.0).

Centrifugation
Speed : 5,000 x g



Centrifuge

30 sec

1. Conditioning

Add 100 μL methanol
↓ Centrifuge
Add 300 μL buffer
Solution (pH 13.0)



Centrifuge

1 min

2. Adsorption

Add 800 μL
sample solution



Centrifuge

1 min
x 2 times

3. Rinsing

Add 300 μL
buffer solution
(pH 13.0)



Centrifuge

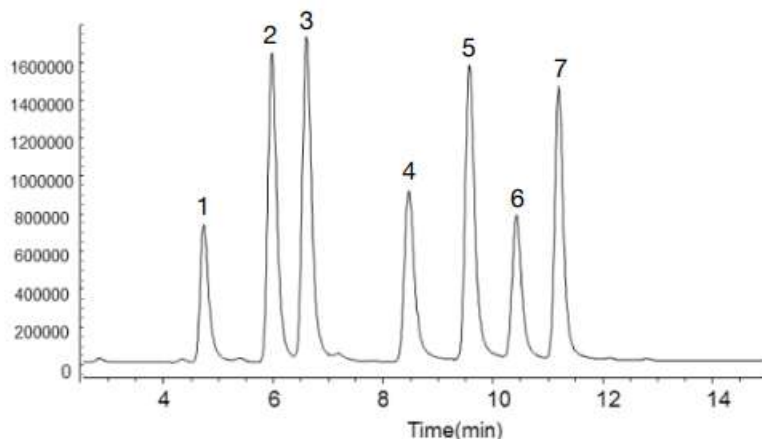
1 min

4. Elution

Add 100 μL
0.1 % formic
acid-methanol
(1 : 1, v/v)



**Purified
Sample**



Conditions

- Column : InertSustainSwift C18 (3 μm , 150 x 2.1 mm I.D.)
Eluent : A) 10 mM Ammonium acetate-Formic acid (pH 3.3)
B) CH_3OH
A/B = 90/10 - 2 min - 90/10 - 13 min - 70/30, v/v
Flow Rate : 0.3 mL/min
Col. Temp. : 40 $^\circ\text{C}$
Detection : LC/MS
Sample : 1. Norephedrine
2. Ephedrine
3. Methylephedrine
4. Amphetamine
5. Methamphetamine
6. 3, 4-methylenedioxyamphetamine
7. 3, 4-methylenedioxymethamphetamine

※ Data provided from Hiroshima University, Dr. Namera