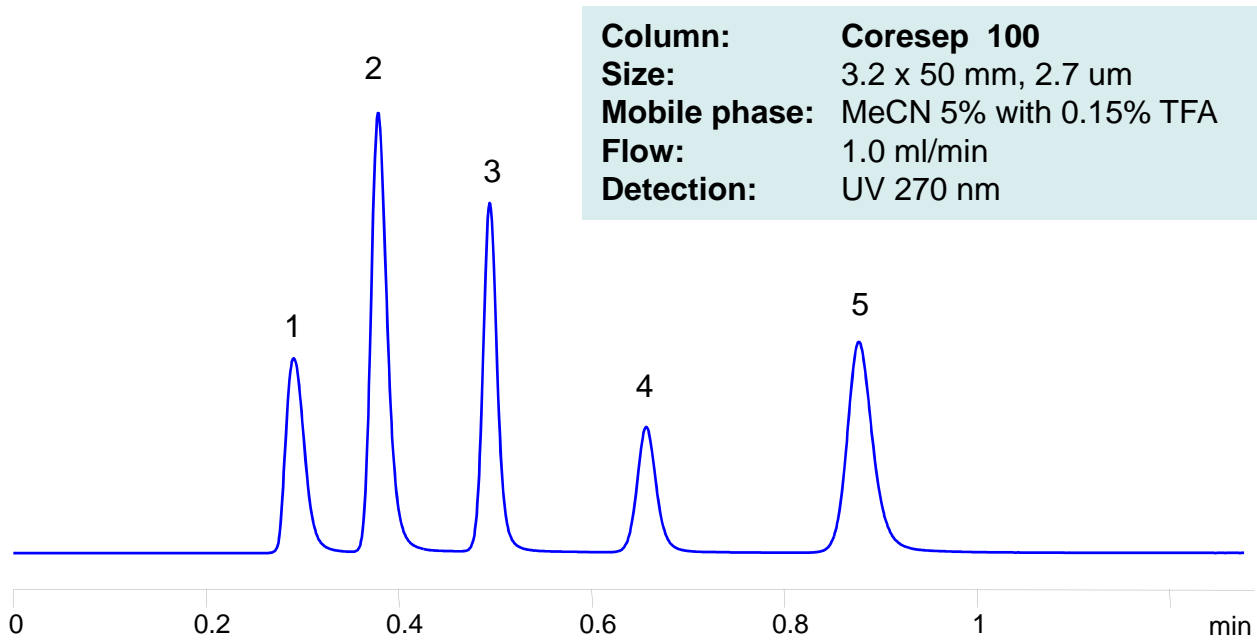
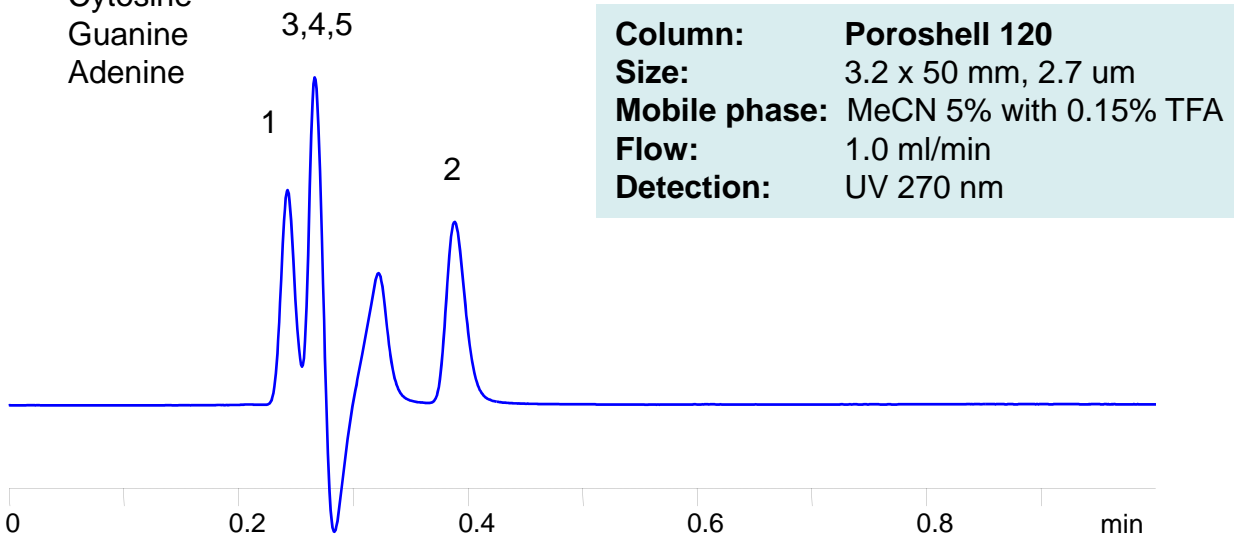


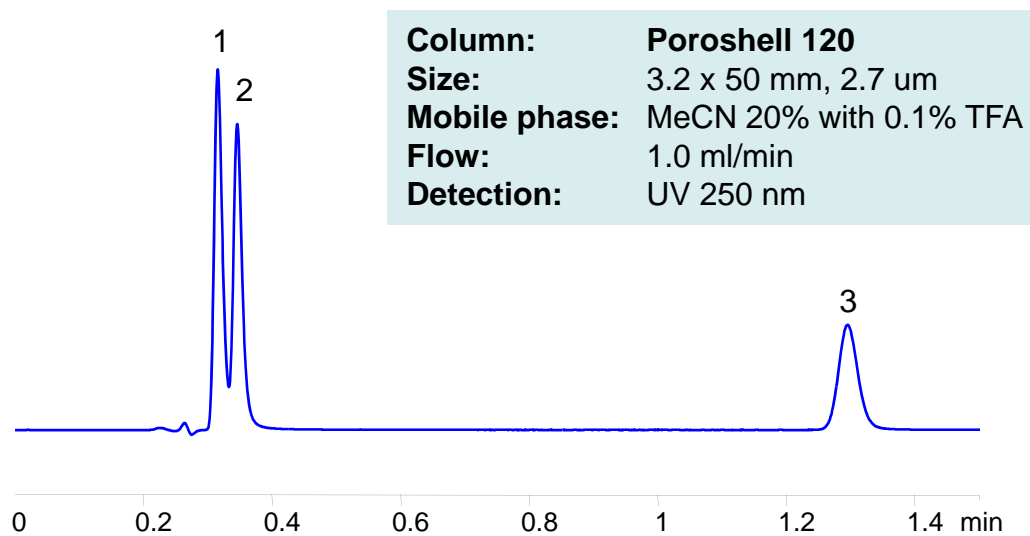
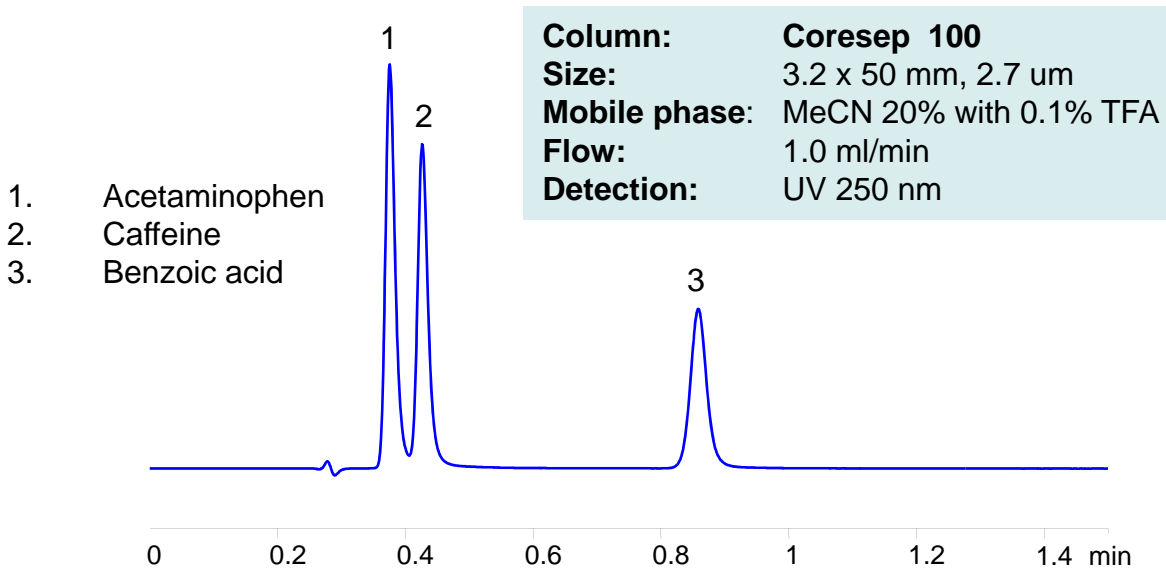
# Separation of Nucleobases in Reversed-Phase and Mixed-Mode



1. Uracil
2. Thymine
3. Cytosine
4. Guanine
5. Adenine

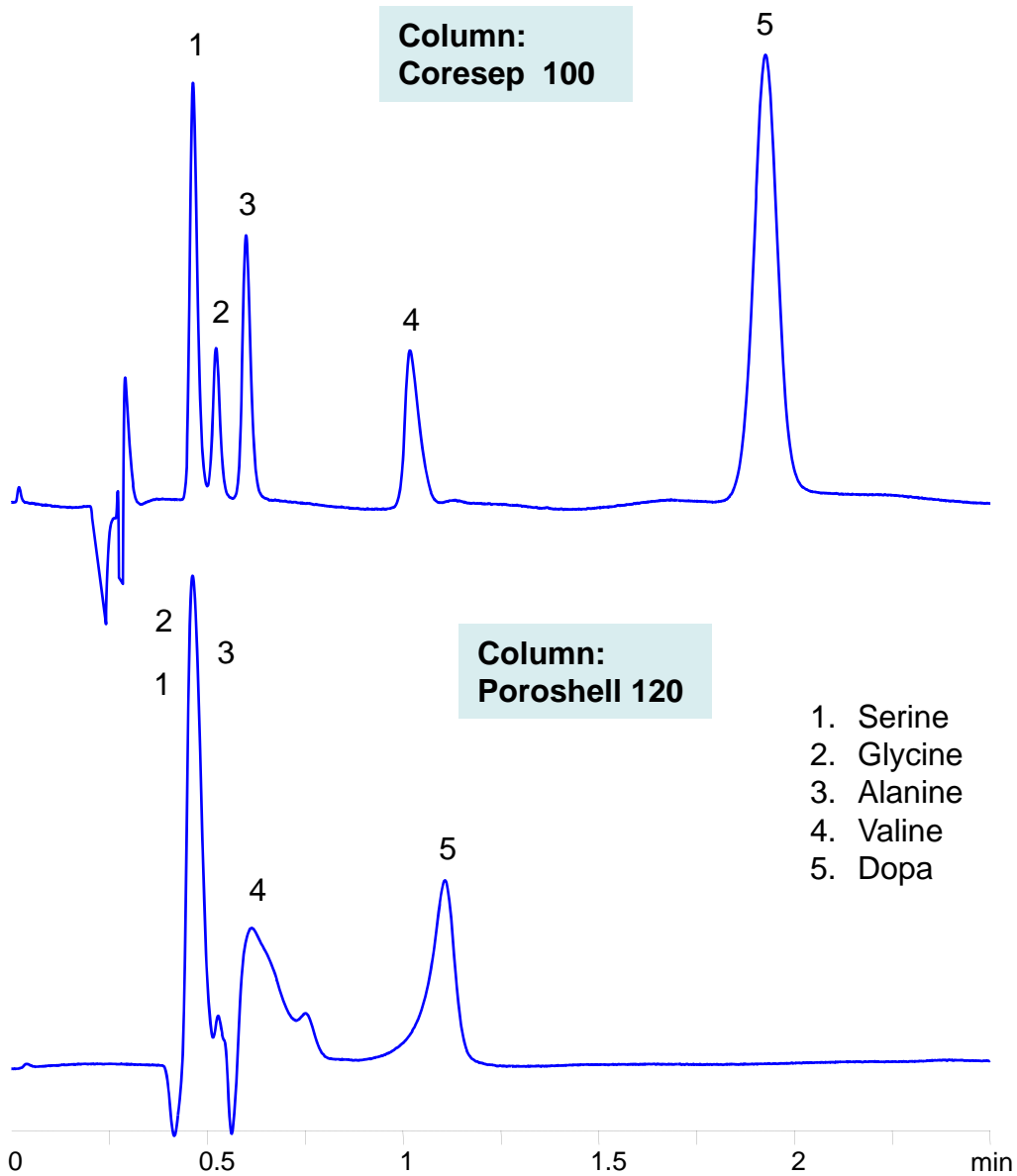


# Selectivity Difference for Polar Compounds in Reversed-Phase and Mixed-Mode



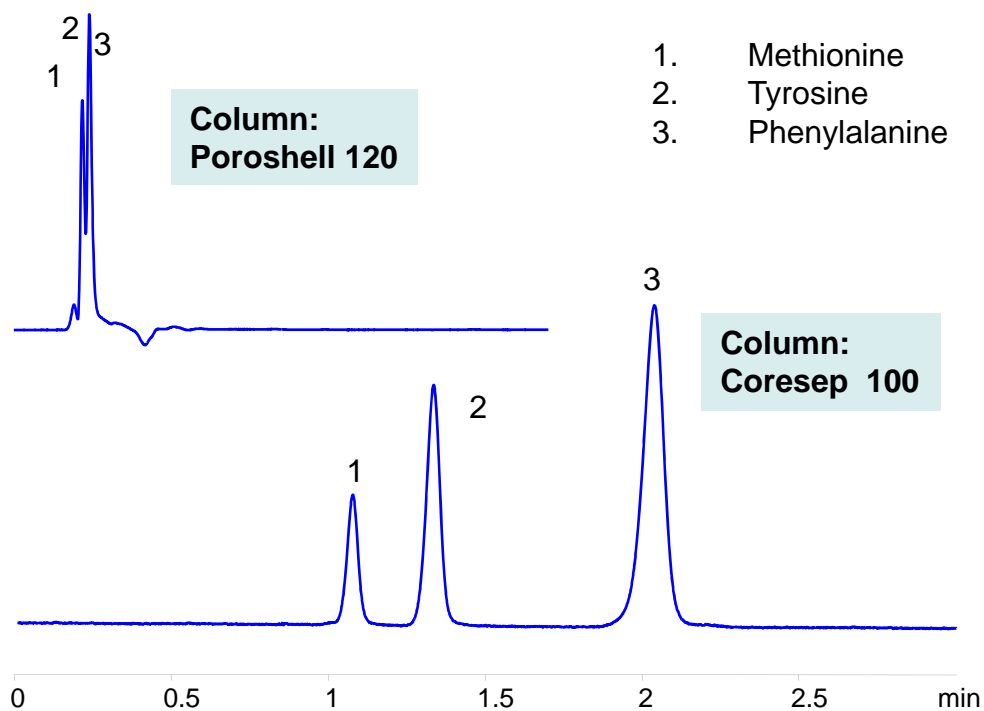
# Separation of Amino Acids in Reversed-Phase and Mixed-Mode

**Column size:** 3.2 x 50 mm, 2.7  $\mu$ m  
**Mobile phase:** MeCN 3% with 0.03% TFA  
**Flow:** 1. mL/min  
**Detection:** UV 210 nm  
**Injection:** 5  $\mu$ m



# Separation of Amino Acids in Reversed-Phase and Mixed-Mode (BLIS-Mode)

**Column size:** 3.2 x 50 mm, 2.7  $\mu$ m  
**Mobile phase:** MeCN 20%, H<sub>2</sub>O 80%  
**Flow:** 1.0 ml/min  
**Detection:** UV 205 nm

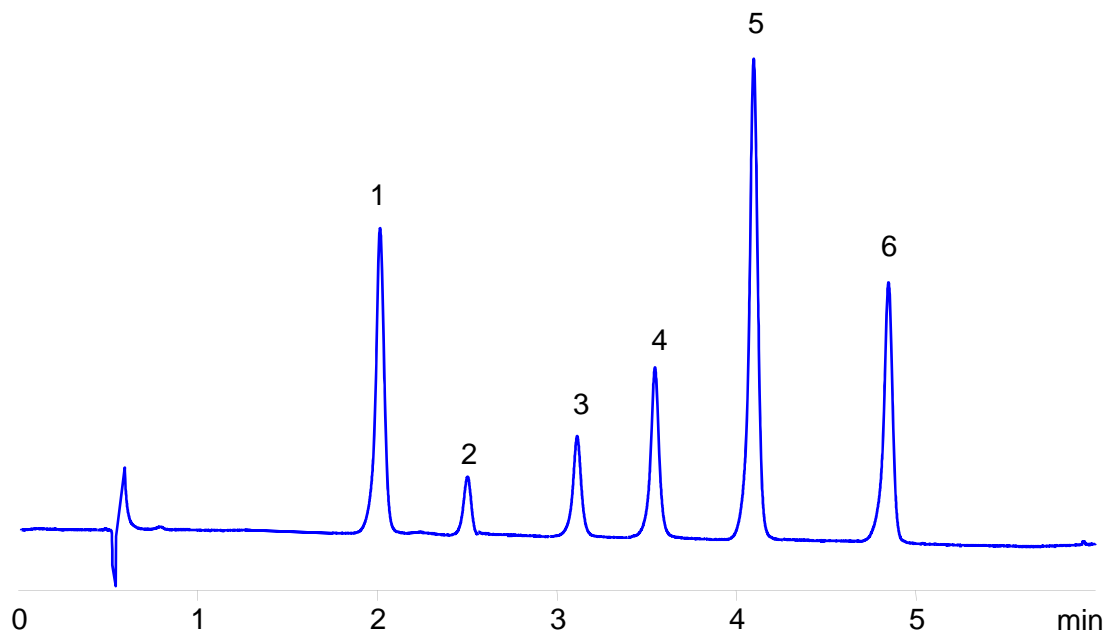


**BLIS – Bufferless Ion Separation**

## Separation of Neurotransmitters in Mixed-Mode

1. DOPA
2. Tyrosine
3. Phenylalanine
4. Norepinephrine
5. Epinephrine
6. Dopamine

**Column:** Coresep 100, LOT 017-021A  
**Size:** 3.2 x 100 mm, 2.7  $\mu$ m  
**Mobile phase:** MeCN gradient from 5% to 10% in 5 min,  
AmFm pH 2.9 gradient from 5 mM to 25 mM  
in 5 min  
**Flow:** 1.0 ml/min  
**Detection:** UV 270 nm



## Separation of Model Compounds in Reversed-Phase and Mixed-Mode

1. Adenosine
2. 3,4-Difluoroaniline
3. 4-Amino-2-chloropyridine
4. 5-Aminoindole
5. 4-Amino-3-chloropyridine
6. 2-Amino 5-methylthiadiazole
7. 4-Ethylaniline

**Size:** 3.2 x 50 mm, 2.7  $\mu$ m  
**Mobile phase:** MeCN gradient from 10% to 65% in 5 min, AmFm pH 3.5 gradient from 30 mM to 70 mM in 5 min  
**Flow:** 1.2 ml/min  
**Detection:** UV 270 nm

