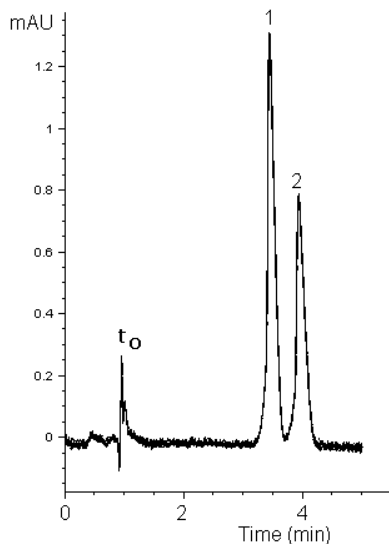


## Reproducibility, Run To Run

Reproducible retention of aromatic amino acids using a Cogent Silica-C™ column and a simple LC-MS compatible mobile phase.



**Note:**  
The mixture of amino acids was prepared and injected without any derivatization. The mobile phase used is LC-MS compatible.

### Method Conditions

**Column:** Cogent Silica-C™ 4μm, 100Å.  
**Catalog No.:** 40000-75P  
**Dimensions:** 4.6 x 7.5 mm  
**Solvents:** A: DI water + 0.1 % formic acid  
 B: acetonitrile + 0.1% formic acid  
**Mobile phase:** 80%B/20%A  
**Flow rate:** 1.0 mL/minute (t<sub>0</sub> = 0.85 min)  
**Peaks:** 1. L-(+)-alpha-phenylglycine  
 2. L-phenylalanine  
**Injection Volume:** 2 μL  
**Sample Matrix:** 0.3 mg/mL of each sample dissolved in 50% acetonitrile/50% DI water + 0.5% formic acid.  
**Detection:** 254 nm UV

### Discussion

Two important aromatic amino acids: L-(+) – alpha - phenylglycine and L – phenylalanine were analyzed using a Cogent Silica-C™ column and an ANP (aqueous normal phase) mobile phase. The retention of the amino acids was remarkably reproducible for more than 20 injections. For clarity purposes on the chromatogram presented only 6 consecutive injections are overlaid. The calculated %RSD for 20 injections were around 0.3%. Conclusion: these columns are not only very reproducible but extremely stable.

For more information visit [www.MTC-USA.com](http://www.MTC-USA.com)

Cat. No.	Description
40000-7.5P	Cogent Silica-C™ HPLC Unmodified HPLC Column, 100Å, 4μm, 4.6 x 75 mm