

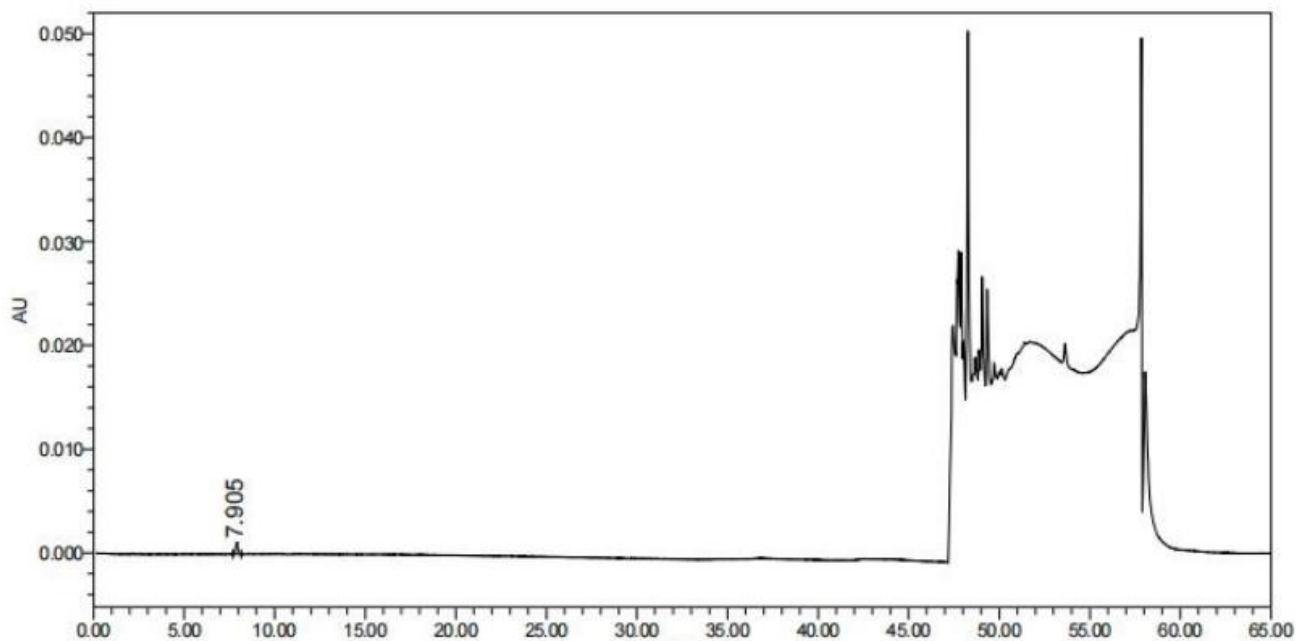
**Determination of folic acid impurity A, p-aminobenzoic acid, and impurity D in 12 vitamins  
by Ultisil UHPLC AQ-C18**

**Method:**

<b>Column</b>	Ultisil® UHPLC AQ-C18(2.1*150 mm,1.8 µm)			
<b>Mobile Phase</b>	A: 20 mM ammonium formate in water (pH adjusted to 2.5 with formic acid), B: methanol			
	Time (min)	Flow rate (mL/min)	Mobile phase A(%)	Mobile phase B(%)
	0.00	0.20	100	0
	6.00	0.20	100	0
	45.00	0.20	80	20
	45.50	0.20	0	100
	55.50	0.20	0	100
	56.00	0.20	100	0
	65.00	0.20	100	0
<b>Detection</b>	280nm			
<b>Temperature</b>	40°C			
<b>Flow Rate</b>	0.2 ml/min			
<b>Injection Volume</b>	2 µL			
<b>Note</b>	Sample pan temperature 8° C			

**Chromatogram and Data:**

Unless otherwise stated, the results shown in this test report refer only to this sample tested. The report can not be copied without the permission of Welch Materials, Inc.



Retention time/min	Area	Height	Degree of separation (USP)	Symmetry factor	Number of plates
7.905	9205	1101	-	1.041325e+000	2.139312e+004

**Conclusion:**

Use the Welch Ultisil® UHPLC AQ-C18 (2.1\*150 mm, 1.8 µm) column to meet your needs.

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