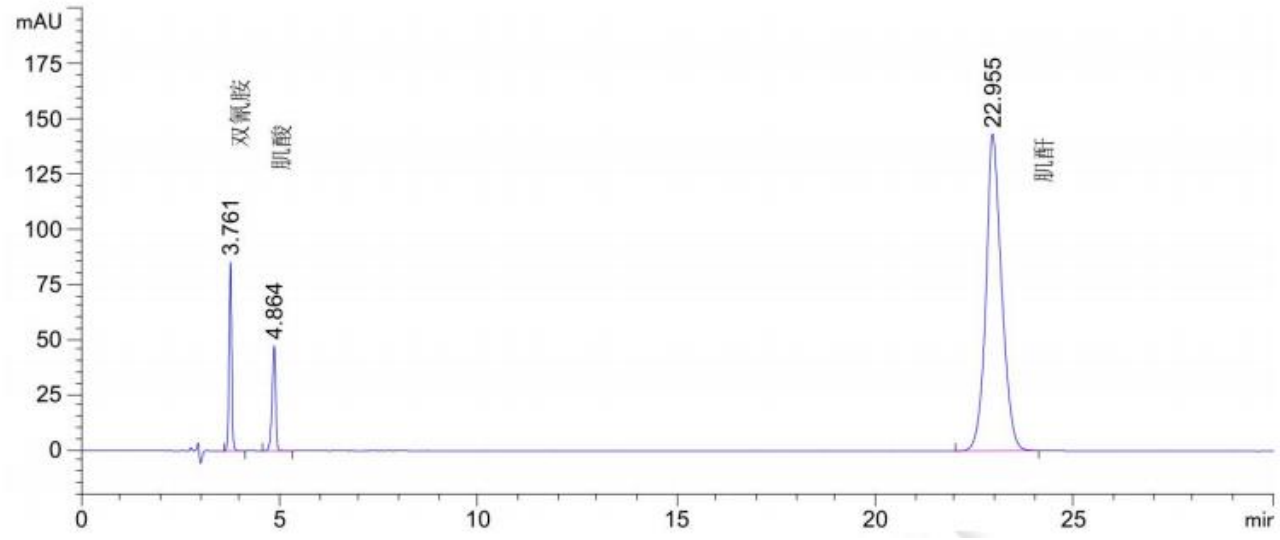
Determination of Dicyandiamide, Creatine by Ultisil XB-SCX

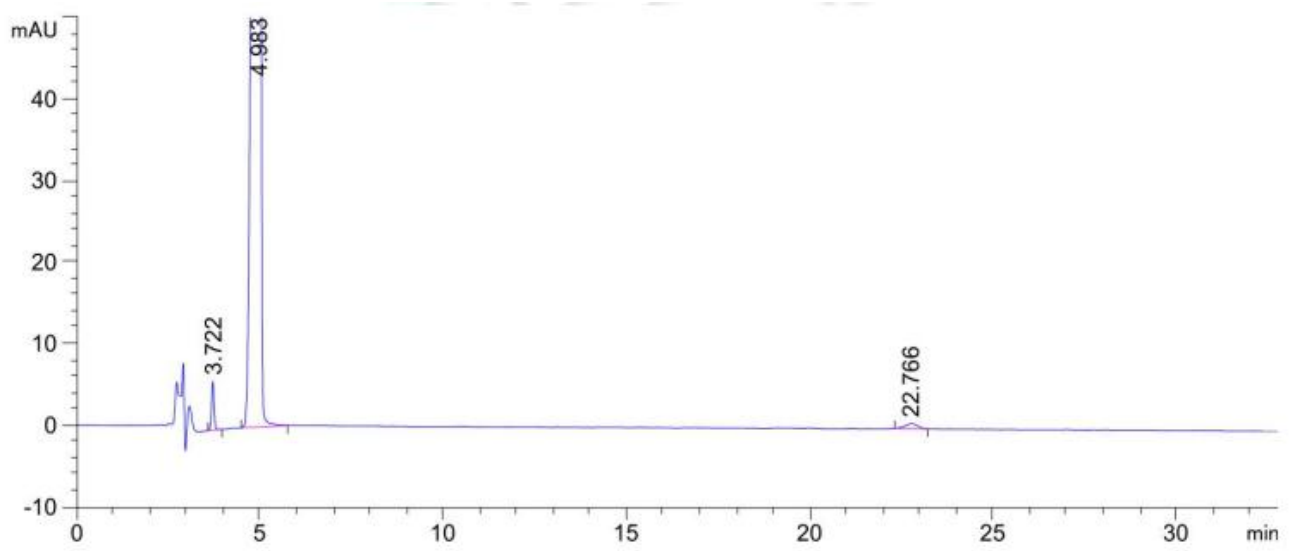
Method:

Column	Ultisil® XB-SCX（4.6×250mm，5μm）（P/N：00232-31043）
Mobile Phase	23g/L ammonium dihydrogen phosphate solution (pH4.0)
Detection	225nm
Temperature	30℃
Flow Rate	1.0 ml/min
Injection Volume	20 μL
Note	/

Chromatogram and Data:



Retention time/min	K`	Area	Height	Symmetry factor	Width	Plates	Resolution (USP)	Selectivity
3.761	-	401.37534	85.82748	1.01	0.0695	16202	-	-
4.864	-	304.39658	47.78050	1.38	0.0950	14519	7.88	1.29
22.955	-	3945.93896	143.93233	0.73	0.4000	18242	42.94	4.72



Retention time/min	K`	Area	Height	Symmetry factor	Width	Plates	Resolution (USP)	Selectivity
3.722	-	27.83699	5.96938	0.98	0.0692	16054	-	-
4.983	-	3404.27441	272.74905	3.09	0.2048	3281	5.41	1.34
22.766	-	14.60254	5.92284e-1	0.83	0.3833	19541	35.53	4.57

Conclusion:

Welch Ultisil® XB-SCX (4.6×250mm, 5μm) (P/N: 00232-31043) chromatographic column was used for the determination under the chromatographic conditions, which could meet the experimental requirements.