

Amino Acid Analysis By Pre-Column Derivatization

1. Analytical Condition

YL 9100 Series HPLC + YL9150 Autosampler

Analytical Conditions

Column : Sunfire C18, 4.6mm 150mm, 3.5um

Temperature : 45°C

Flow Rate : 1.0 mL/min

Mobile phase : A : 5.5g NaH₂PO₄+10N NaOH=pH7.8

B : ACN:MeOH:water(45:45:10), gradient

Gradient Program

Time [min]	Buffer pH=7.8 [%]	ACN:MeOH:W=45 :45:10 [%]	Flow [mL/min]
Initial	100	0	1.000
15.00	78	22	1.000
28.00	50	50	1.000
32.00	0	100	1.000
38.00	0	100	1.000
38.10	100	0	1.000

Detector : UVD 338nm (OPA)

Injection Volume : 10 µL

Autosampler mixing condition :

AS Status

Mode, Time and Temp. | Inputs and Outputs | Mix Methods | System Settings | Tray

Use Mix Methods

#	Action Type	From	To	Amount [µl]
1	Add	Sample	Destination	20
2	Add	Reagent A	Destination	30
3	Mix	3		35
4	Add	Reagent B	Destination	20
5	Mix	5		50



Amino Acid Analysis By Pre-Column Derivatization

2. Chromatogram

