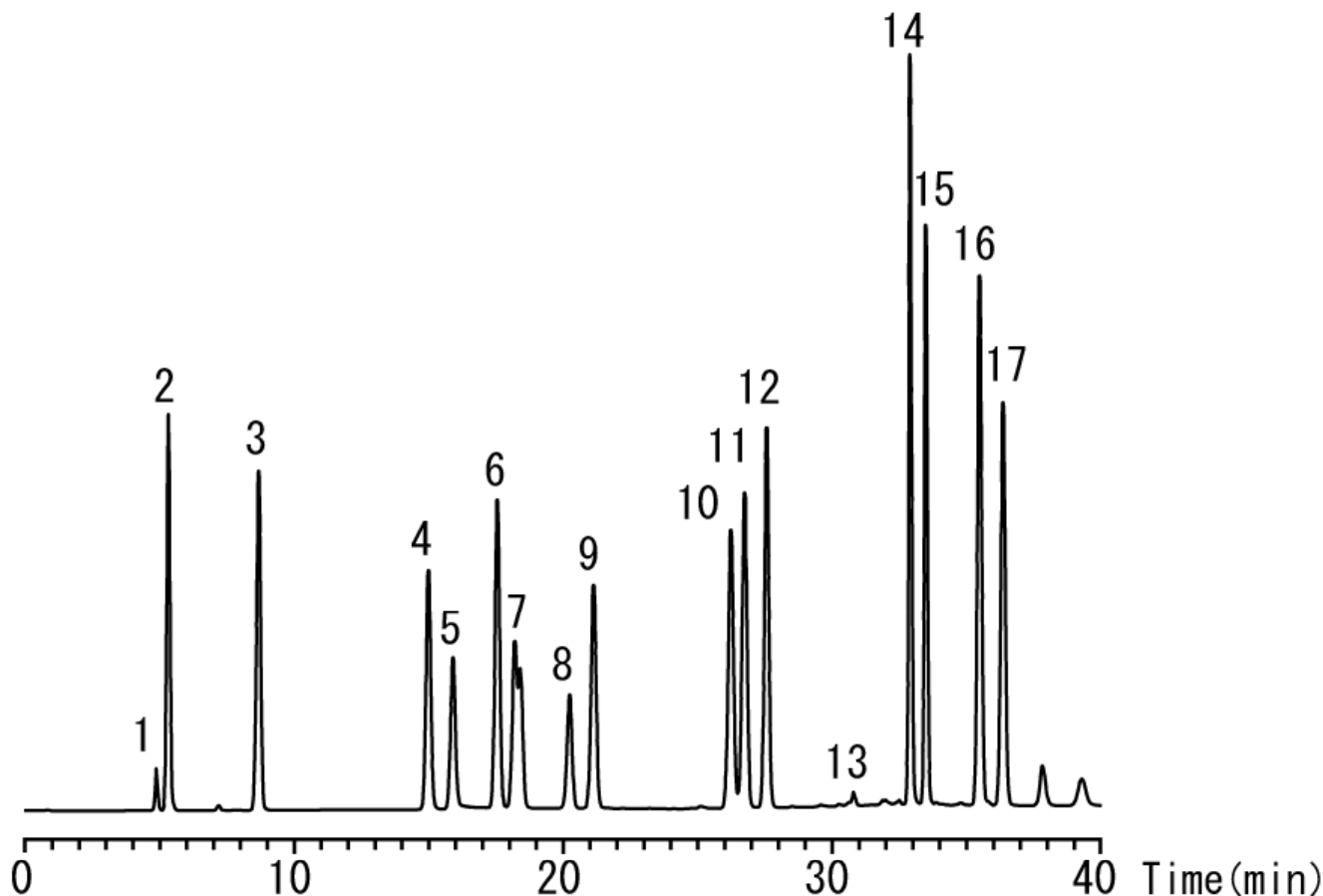


## Analysis of OPA-amino acid

Data No. LA668-0142



### Conditions

**System** : GL-7400 HPLC System  
**Column** : Inertsil ODS-3 (3  $\mu$ m, 100 x 4.6 mm I.D.)  
**Column Cat. No.** : 5020-01775  
**Eluent** : A) CH<sub>3</sub>OH/50 mM Na<sub>2</sub>HPO<sub>4</sub>/50 mM NaH<sub>2</sub>PO<sub>4</sub>/THF  
= 100/450/450/10, v/v/v/v  
B) CH<sub>3</sub>OH/50 mM Na<sub>2</sub>HPO<sub>4</sub>/50 mM NaH<sub>2</sub>PO<sub>4</sub>  
= 600/200/200, v/v/v  
A/B = 100/0 – 25 min – 40/60 – 5 min  
– 0/100 – 10 min hold, v/v  
**Reaction Reagent** : OPA (Online Pre-Column Derivatization)  
**Flow Rate** : 1.2 mL/min  
**Col. Temp.** : 40 °C  
**Detection** : FL Ex 340 nm Em 450 nm (GL-7453A FL Detector)  
**Injection Vol.** : 10  $\mu$ L

### Analyte

OPA-Amino Acids Driv.  
1. Cystine (Cys) (2.5 nmol/mL)  
2. Aspartic acid (Asp) (2.5 nmol/mL)  
3. Glutamic acid (Glu) (2.5 nmol/mL)  
4. Serine (Ser) (2.5 nmol/mL)  
5. Histidine (His) (2.5 nmol/mL)  
6. Arginine (Arg) (2.5 nmol/mL)  
7. Methionine (Met) (2.5 nmol/mL)  
8. Glycine (Gly) (2.5 nmol/mL)  
9. Threonine (Thr) (2.5 nmol/mL)  
10. Alanine (Ala) (2.5 nmol/mL)  
11. GABA (2.5 nmol/mL)  
12. Tyrosine (Tyr) (2.5 nmol/mL)  
13. Proline (Pro) (2.5 nmol/mL)  
14. Valine (Val) (2.5 nmol/mL)  
15. Phenylalanine (Phe) (2.5 nmol/mL)  
16. Isoleucine (Ile) (2.5 nmol/mL)  
17. Leucine (Leu) (2.5 nmol/mL)