

CoreFocus Report

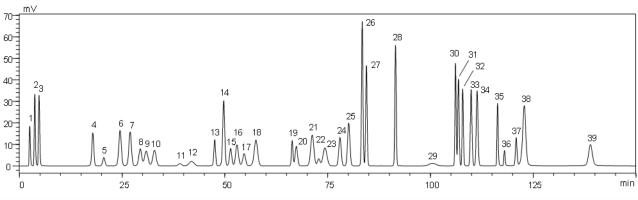
No.161A

LC Ion-exchange **Shim-pack Series**

Shim-pack[™] Amino-Li

Analysis of Free Amino Acids under Li Type **Condition**

Keywords: post-column derivatization, OPA, o-phthalaldehyde



- 1. o-Phosphoserine
- 2. Taurine
- 3. o-Phosphoethanolamine

Column

- 4. Aspartic acid
- 5. Hydroxyproline 6. Threonine
- 7. Serine
- 8. Asparagine
- 9. Glutamic acid
- 10. Glutamine

- 11. Sarcosine
- 12. α -Aminoadipic acid
- 13. Proline
- 14. Glycine
- 15. Alanine
- 16. Citrulline
- 17. α-Amino-n-butyric acid
- 18. Valine

- 19. Cystine
- 20 Methionine

- 21. Isoleucine
- 22. Cystathionine
- 23. Leucine
- 24. Tyrosine
- 25. Phenylalanine
- 26. *β*-Alanine
- 27. 8-Aminoisobutyric acid
- 28. γ –Aminobutyric acid

 - (GABA)
- 29. Tryptophan

- 30. Histidine
- 31. 3-Methylhistidine
- 32. 1-Methylhistidine
- 33. Carnosine
- 34. Anserine
- 35. Hydroxylysine
- 36. Ornithine
- 37. Lysine
- 38. Ammonia 39. Arginine
 - 29: 0.026 mmol/L The others: 0.1 mmol/L

11: 0.25 mmol/L

1-3,12,17 and 22: 0.05 mmol/L

System Nexera[™] Post-Column Amino Acid Analysis System

Shim-pack Amino-Li

(100 mm x 6.0 mm l.D., 5 μm) , P/N : 228-18837-92

Shim-pack ISC-30/S0504Li Ammonia trap column

(50 mm × 4.0 mm I.D.), P/N : 228-00821-91 Amino Acid Mobile Phase Kits (Li type), P/N: 228-21195-95 Mobile phase

Gradient elution 0.6 mL/min

Flow rate Column temp. 39°C 10 µL Injection vol.

Shimadzu vials, LC, 1.5 mL, glass Reaction reagent Amino Acid Reagent Kits Flow rate of reagent 0.2 mL/min for each

Reaction temp. 39°C

Detection Fluorescence, Ex. 350 nm Em. 450 nm

Source : Application News L568A (JP, ENG)

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