

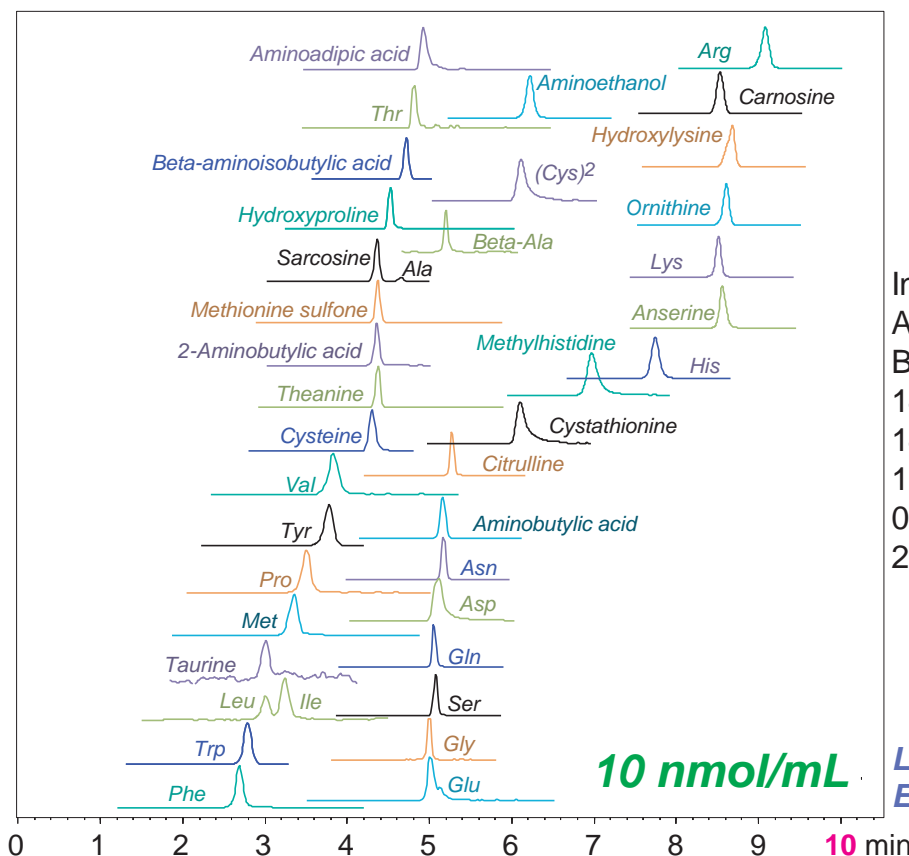
Intrada Amino Acid

50 x 3 mm

Application

LC-MS: 39 Amino acids (standard)

39種アミノ酸(標準試料)のLC-MS/MS分析



Intrada Amino Acid, 50 x 3 mm
 A: acetonitrile /HCOOH =100 /0.1
 B: 100mM ammonium formate
 14%B (0-3min)
 14-100%B (3-10min)
 100%B (10-15min)
 0.6 mL/min, 40°C
 2µL (10nmol/mL, 0.1N HCl)

LCMS-8050 (Shimadzu Corp.)
 ESI, Positive/Negative, MRM

| | MRM Transition | Linearity | | | MRM Transition | Linearity | |
|----------|----------------|-----------------|------------------|----------------------------|----------------|-----------------|------------------|
| | | Range (nmol/mL) | Coefficient (r2) | | | Range (nmol/mL) | Coefficient (r2) |
| Trp | 205.10>188.10 | 0.01-100 | 0.995 | Theanine | 174.50>84.10 | 1-500 | 0.988 |
| Phe | 166.10>120.10 | 0.01-100 | 0.997 | Aminoadipic acid | 161.90>98.20 | 0.1-50 | 0.979 |
| Tyr | 182.10>136.00 | 0.05-100 | 0.99 | Taurine | 126.20>44.05 | 10-500 | 0.998 |
| Met | 150.10>56.10 | 0.05-200 | 0.996 | Ornithine | 133.10>70.10 | 0.05-100 | 0.997 |
| Lue, Ile | 132.10>86.15 | 0.01-100 | 0.995 | Cysteine | 122.00>76.05 | 5-500 | 0.996 |
| Val | 118.10>72.05 | 0.05-100 | 0.999 | Hydroxyproline | 132.10>86.05 | 0.1-500 | 0.991 |
| Glu | 148.10>84.10 | 0.05-10 | 0.996 | Sarcosine | 89.90>43.85 | 0.05-100 | 0.999 |
| Pro | 116.10>70.10 | 0.01-50 | 0.993 | β-Ala | 89.70>72.10 | 0.5-500 | 0.999 |
| Asp | 134.20>74.10 | 0.5-500 | 0.995 | Citrulline | 176.10>70.05 | 0.05-100 | 0.993 |
| Thr | 120.10>74.00 | 0.1-50 | 0.992 | 2-Aminobutyric acid | 104.10>58.05 | 0.5-500 | 0.996 |
| Ala | 90.10>44.10 | 0.5-500 | 0.998 | Cystathionine | 223.00>88.05 | 0.1-10 | 0.995 |
| Ser | 106.10>60.20 | 0.5-500 | 0.998 | Aminoethanol | 62.00>44.10 | 0.1-500 | 0.999 |
| Gln | 147.10>84.10 | 0.05-1 | 0.995 | Anserine | 240.70>109.10 | 0.1-100 | 0.997 |
| Gly | 76.20>29.90 | 5-200 | 0.997 | Carnosine | 227.10>110.05 | 0.05-100 | 0.995 |
| Asn | 133.10>74.05 | 0.05-20 | 0.993 | Hydroxylysine | 162.90>82.15 | 0.1-500 | 0.996 |
| (Cys)2 | 241.00>151.95 | 0.05-20 | 0.99 | Methylhistidine | 169.90>124.15 | 0.01-10 | 0.999 |
| His | 156.10>110.10 | 0.05-200 | 0.998 | 3-Aminoisobutyric acid | 103.80>86.10 | 0.05-500 | 0.991 |
| Lys | 147.10>84.10 | 0.05-5 | 0.99 | 4-Aminobutyric acid (GABA) | 104.10>87.05 | 0.05-500 | 0.995 |
| Arg | 175.10>70.10 | 0.01-100 | 0.996 | Methionine sulfone | 180.00>79.20 | 0.5-100 | 0.973 |

Ref.) ASMS 2015 (St. Louis)

Courtesy of Shimadzu Corporation, JAPAN