

Analysis of amino acids and histamine using precolumn derivatization using DABS-Cl

DAB-Label using DABS-Cl (Dimethylamino azobenzenesulfonyl chloride) with a high reactivity makes possible to analyze not only the amino acids but also the compounds having the amino group simultaneously. Moreover, DAB-Label facilitates the troublesome work for the derivatization by offering it as a kit. The obtained amino acids provide good stability and can be stored for quite a while. Fig.1 shows the chromatogram of the amino acids and histamine simultaneously analyzed by using DAB-Label.

Keywords : 1.Amino acid and Histamine, 2.STD mixture, 3.ODS, 4.Vis,5.DABS-Cl

Conditions:

Column: Dabsylpak
 Precolumn: Dabsylpak-P
 Eluent: A: 50mM NaH₂PO₄(pH6.6)/DMF(96/4)
 B: CH₃CN

Time	0.0	9.0	14.0	16.0	18.0	22.0	23.0	24.0	25.0
A(%)	85	70	59	49	46	36	10	10	85
B(%)	15	30	41	51	54	64	90	90	15

1Cycle:40.0min

Wave length: 465nm
 Flow rate: 1.0ml/min
 Column Temperature: 40 degree celsius
 Sample: Amino Acid Std. Soln. Type H (Wako Pure Chem) 50pmol/ul
 Histamine 500pmol/ul
 Injection volume: 20ul

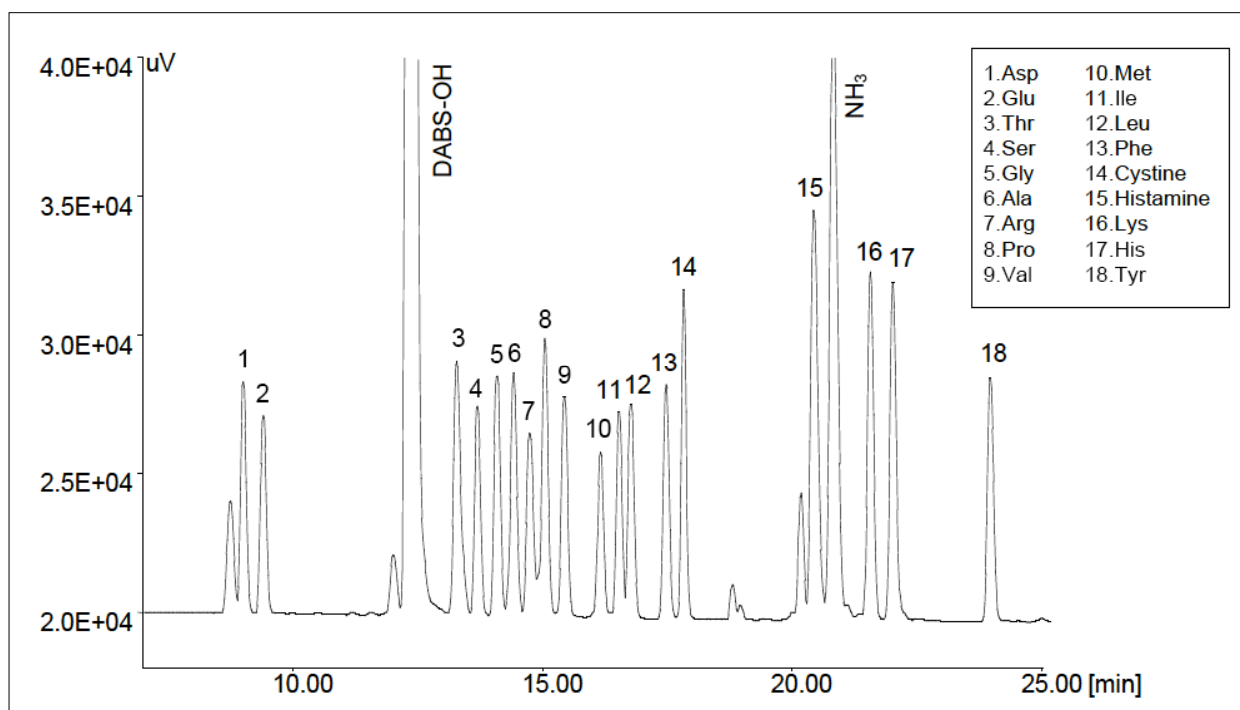


Fig.1 Chromatogram of DAB-Labeled amino acids and histamine