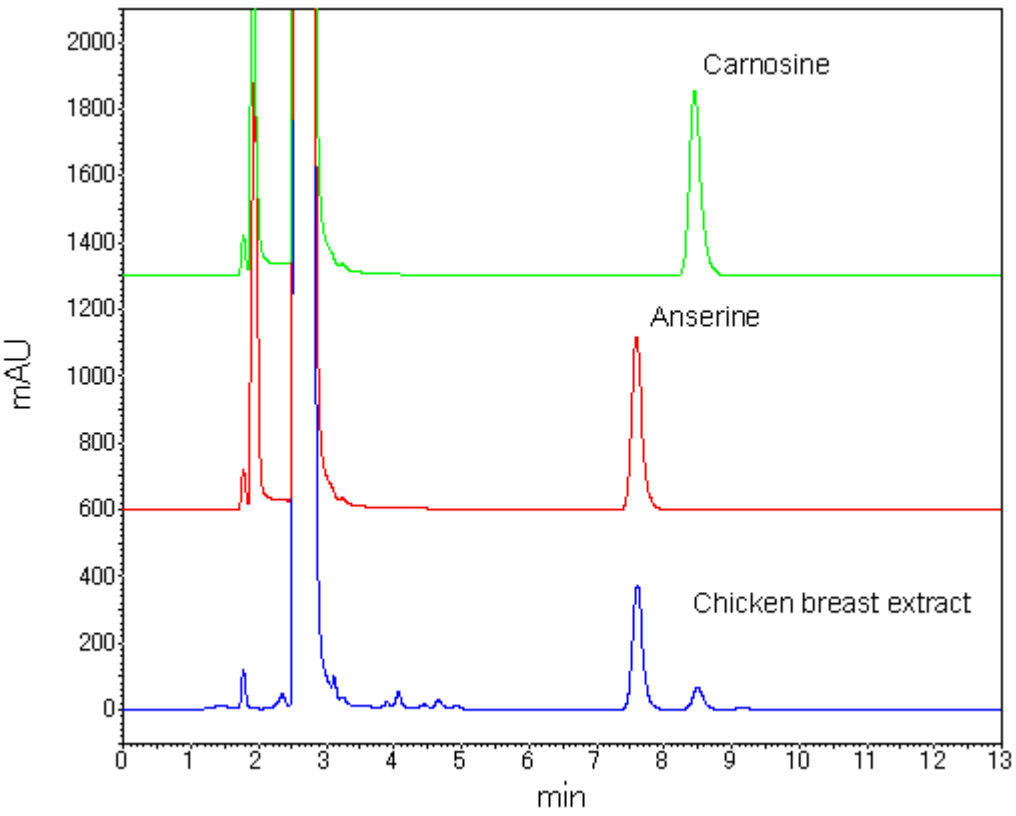
DATA CODE: G00980

Application Title:
Separation of histidine-containing dipeptides(Anserine and Carnosine) in chicken breast extract by reversed-phase chromatography (1)

Compound:
1) Anserine; 2) Carnosine



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ANALYSENTECHNIK

Chromatographic conditions

Column:	TSKgel ODS-100V 5 µm, P/N 21455, 5 µm, 4.6 mm ID × 15 cm × 1
Mobile Phase:	Acetonitrile / 200 mmol/L $NH_4H_2PO_4$ + 100 mmol/L Sodium pentanesulfonate (pH 2.0) = 5 / 95
Flow Rate:	0.8 mL/min
Detection:	UV/VIS @ 220 nm
Temperature:	40 °C
Injection Volume:	10 µL
Sample(s):	Chicken breast extract
Instrument:	Agilent 1120 Compact LC
Comments:	Chicken breast meat was ground and 50 mg was weighed, and added 950 µL of water. 200 µL of 30% sulfosalicylic acid was added and mixed with vortex mixer. After centrifugation, supernatant was 0.45 µm filtered and injected. Standard solution was prepared by dissolving 100mg of Anserine or Carnosine in 20 mL of 5%

Chromatographic conditions

sulfosalicylic acid. According to this method, Anserine and Carnosine concentration in chicken breast extract were 7.85 mg/g and 1.51 mg/g respectively.