

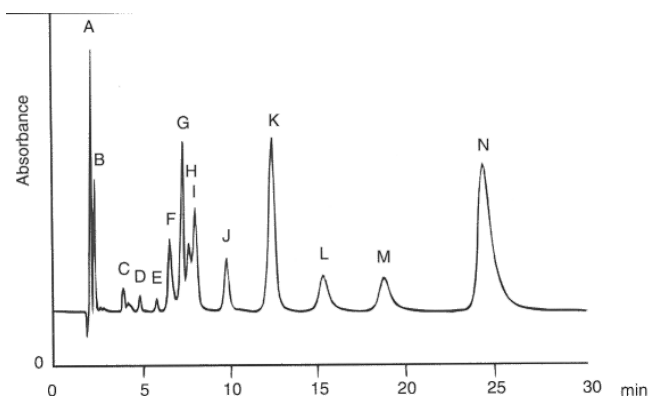
Application Number

107270

Method

HPLC

Results



Title: see Note:

Legend:

Peaks

Fig. 1:

- A - creatine
- B - creatine phosphate
- C - cytidine 5'-diphosphate (CDP)
- D - inosine monophosphate (IMP)
- E - guanosine monophosphate (GMP)
- F - cytidine 5'-triphosphate (CTP)
- G - adenosine monophosphate (AMP)
- H - uridine 5'-triphosphate (UTP)
- I - inosine 5'-diphosphate (IDP)
- J - guanosine diphosphate (GDP)
- K - adenosine diphosphate (ADP)
- L - inosine 5'-triphosphate (ITP)
- M - guanosine triphosphate (GTP)
- N - adenosine triphosphate (ATP)

Fig. 2:

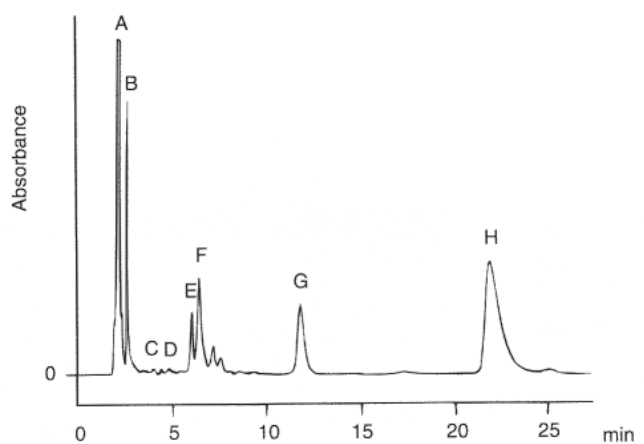
- A - creatine
- B - creatine phosphate
- C - hypoxanthine
- D - inosine monophosphate (IMP)

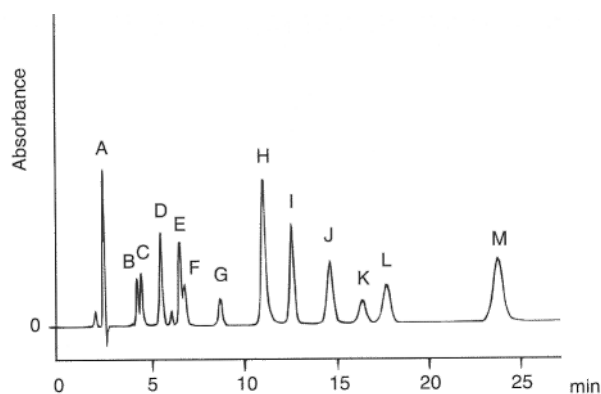
- E - nicotinamide adenine dinucleotide (NAD)
- F - adenosine monophosphate (AMP)
- G - adenosine diphosphate (ADP)
- H - adenosine triphosphate (ATP)

Fig. 3:

- A - creatine
- B - hypoxanthine
- C - xanthine
- D - inosine
- E - cytidine monophosphate (CMP)
- F - guanosine
- G - Uridine monophosphate (UMP)
- H - adenosine
- I - creatine phosphate
- J - inosine monophosphate (IMP)
- K - guanosine monophosphate (GMP)
- L - nicotinamide adenine dinucleotide (NAD)
- M - adenosine monophosphate (AMP)

For extracts with larger amounts of nucleotide destruction products, a reduced pH of 4.6 should be used to minimize peak interferences of purine bases, nucleosides and monophosphates.





Substances creatine; creatine phosphate; cytidine 5'-diphosphate (CDP); inosine monophosphate (IMP); guanosine monophosphate (GMP); cytidine 5'-triphosphate (CTP); adenosine monophosphate (AMP); uridine 5'-triphosphate (UTP); inosine 5'-diphosphate (IDP); guanosine diphosphate (GDP); adenosine diphosphate (ADP); inosine 5'-triphosphate (ITP); guanosine triphosphate (GTP); adenosine triphosphate (ATP); nicotinamide adenine dinucleotide (NAD); hypoxanthine; xanthine; inosine; cytidine monophosphate (CMP); guanosine; uridine monophosphate (UMP); adenosine

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Matrix tissue

Sample(s) see the cited literature

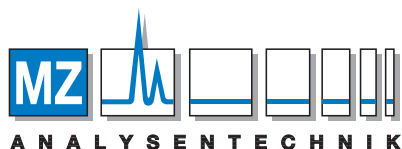
Conditions Eluent: degassed 25 mmol/L potassium phosphate buffer with 2 mmol/L 11-aminoundecanoic acid in water - methanol (92:8, v/v)
 Temperature: 20 °C
 Flow rate: 1.0 mL/min

Detection UV photodiode array, 210 nm

Note	Fig. 3 Chromatogram of a standard mixture of nucleotide monophosphate, nucleosides and purines with creatine and creatine phosphate at a pH of 4.6
Author	Fischer, J.H.
Source	LC·GC int. 8 (1995) 254
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