

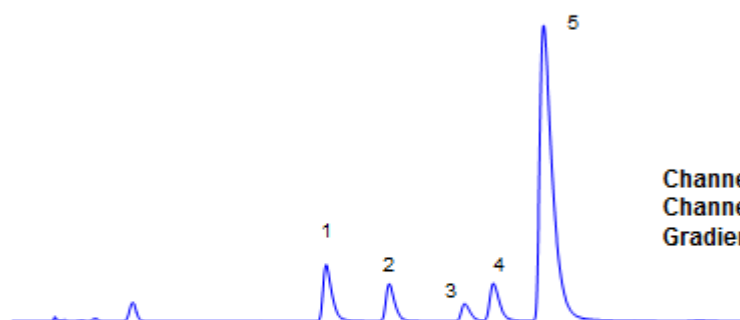
Separation of Nucleotide Monophosphates

<https://sielc.com/Application%20Separation%20of%20Nucleotide%20Monophosphates>

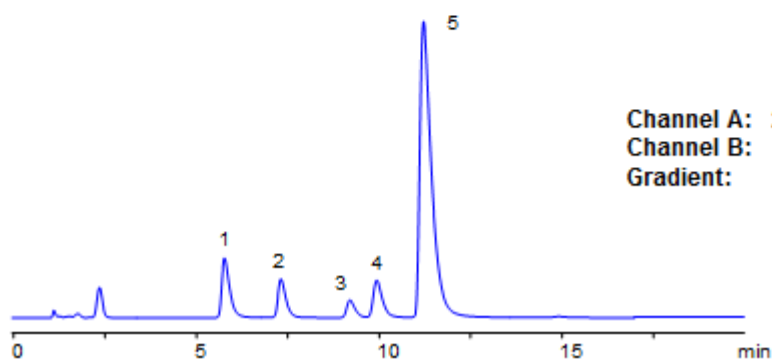
Chromatogram

1. Cytidine monophosphate
2. Uridine monophosphate
3. Inosine monophosphate
4. Guanosine monophosphate
5. Adenine monophosphate

Column: Primesep SB
Dimensions: 2.1x100 mm, 5 µm, 100Å
Lot number: S02-075C
Flow rate: 0.3 ml/min
Detection: 270 nm



Channel A: 2% ACN with 10 mmol AmAc pH 4.5
Channel B: 10% ACN with 40 mmol AmAc pH 4.5
Gradient: 100% A to 100% B in 12 min, 4 min hold



Channel A: 2% ACN with 30 mmol AmAc pH 4.5
Channel B: 10% ACN with 60 mmol AmAc pH 4.5
Gradient: 100% A to 100% B in 12 min, 4 min hold

Description

Nucleotides are the monomers of DNA and RNA, composed of a five-carbon sugar, a nitrogenous base, and at least one phosphate group. Primesep SB is a good column for separating these highly polar compounds. Primesep SB is a reverse-phase column with strong embedded basic ion-pairing groups. Retention can be manipulated by adjusting acetonitrile, and the baseline separation can be achieved in under 6 minutes using a gradient.