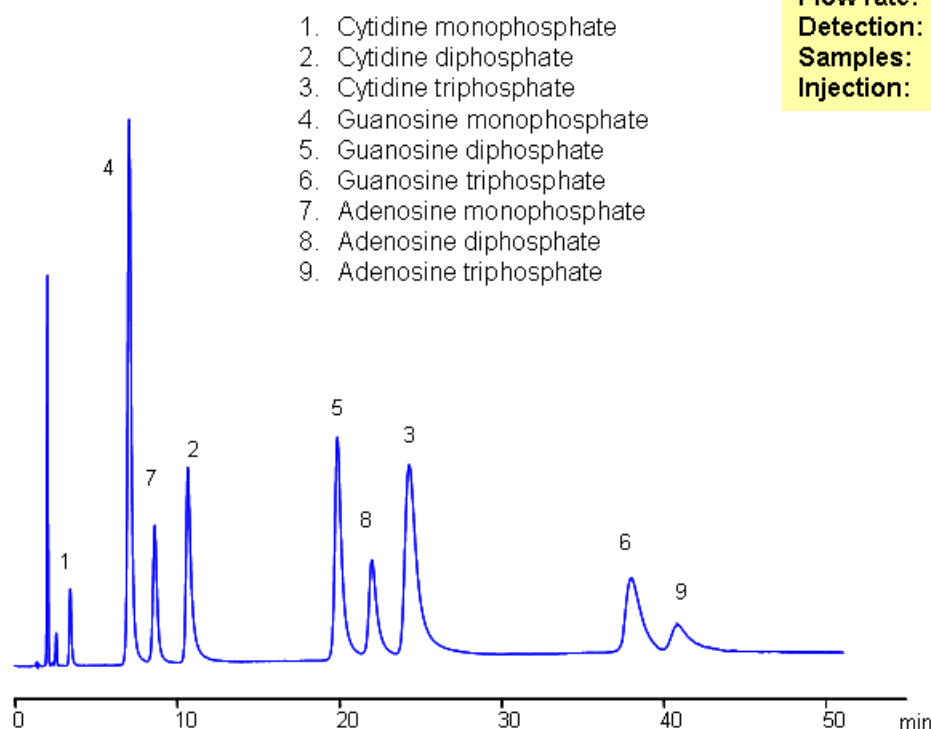


Separation of Nine Nucleotides by Mixed-Mode Chromatography

<https://sielc.com/Application%20%20Separation%20of%20Nine%20Nucleotides%20by%20Mixed-Mode%20Chromatography>

Chromatogram

Column: Primesep SB
Dimensions: 4.6x150 mm, 5 µm, 100Å
Mobile phase: 5% ACN, AmAc buffer (pH 4.5) gradient, from 30 mmol to 190 mmol in 45 minutes
Flow rate: 1.5 ml/min
Detection: 270 nm
Samples: 0.3 mg/ml
Injection: 20 µL



Description

Nucleotides are important biological molecules which serve as subunits of nucleic acids. They are composed of a five-carbon sugar, a nitrogenous base, and at least one phosphate group. Nucleotides cannot be retained by reverse-phase chromatography without an ion-pairing reagent due to their highly polar nature. Primesep SB is capable of retaining and separating nine nucleotides. Primesep SB is a reverse-phase column with strong embedded basic ion-pairing groups.