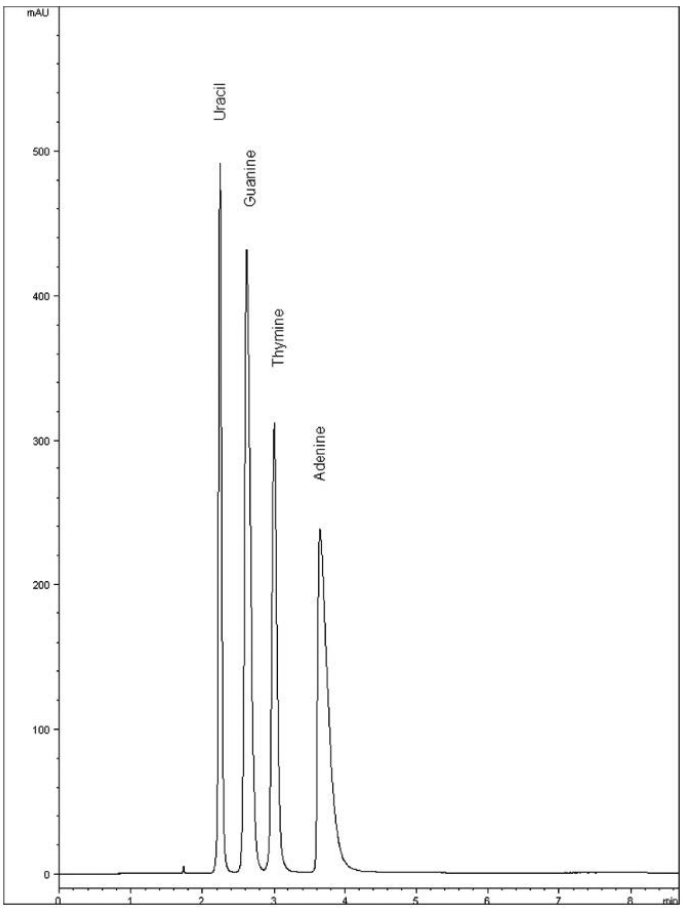
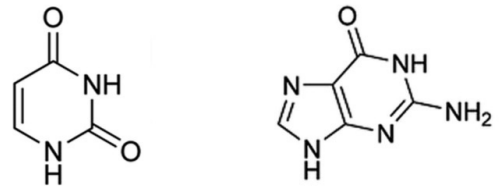
Nucleobases analyzed by HPLC – AppNote

Nucleotides Uracil, Guanine, Thymine, Adenine, Excellent Peak Shape and Resolution

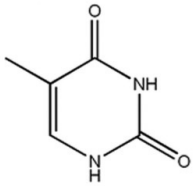
This Method is easy to prepare, use and reproduce. Separation is accomplished under 100% Aqueous Conditions yet there is an alternate Selectivity. These bases may be difficult to retain on Columns with ordinary Silica that contain significant amounts of Silanols.



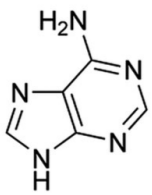


Uracil

Guanine



Thymine



Adenine

Peaks:

1. Uracil (U)
2. Guanine (G)
3. Thymine (T)
4. Adenine (A)

Method Conditions

Column: Cogent Diamond Hydride™, 4µm, 100Å

Catalog No.: 70000-75P

Dimensions: 4.6 x 75mm

Mobile Phase: DI Water / 0.1% Acetic Acid

Temperature: 25°C

Injection vol.: 2.5µL

Flow rate: 1mL / minute

Detection: UV @ 254nm

Notes: *Nucleobases (or Nucleotide Bases) are the parts of DNA and RNA that may be involved in pairing. The main Bases are Cytosine, Guanine, Adenine (DNA and RNA), Thymine (DNA) and Uracil (RNA). They are usually simply called "Bases" in Genetics.*

Attachment

Nucleobases Analyzed by HPLC pdf Download File

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