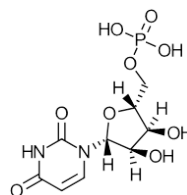
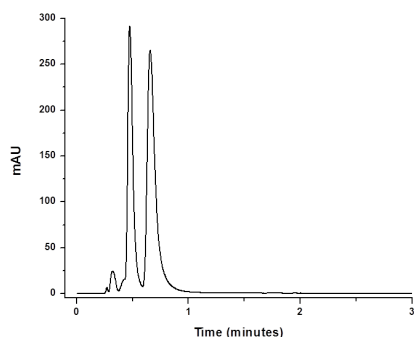


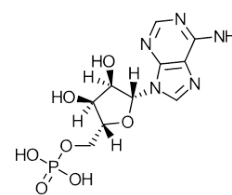
FLARE HILIC Column: Separation of Nucleotides—UMP and AMP

HPLC Conditions

Column Name:	FLARE HILIC (Amino-Diol)
Column Dimensions:	4.6 x 33mm, 3.6 μ m, 180 \AA (FH1090-1)
HPLC System:	Agilent 1290
Injection Volume:	1.0 μ l
Detection:	UV at 254nm
Flow Rate:	0.8ml/min
Mobile Phase:	A: 0.85% H ₃ PO ₄ in H ₂ O B: ACN; A/B = 22/78
Temperature:	25 $^{\circ}$ C
Analytes:	1. Uridine monophosphate, UMP (logP: -2.54) 2. Adenosine monophosphate, AMP (logP: -4.79)



UMP



AMP

Notes

The FLARE HILIC column is packed with core-shell particles that are functionalized to render their surfaces hydrophilic. With mobile phases containing a high amount of the organic component, polar species such as UMP and AMP are adequately retained even on very short columns. This separation is an example of how this unique FLARE column can be used to separate a variety of polar analytes such as melamine and cyanuric acid, nucleobases, sugars, polar APIs, etc.

References

1. www.chemicalize.org