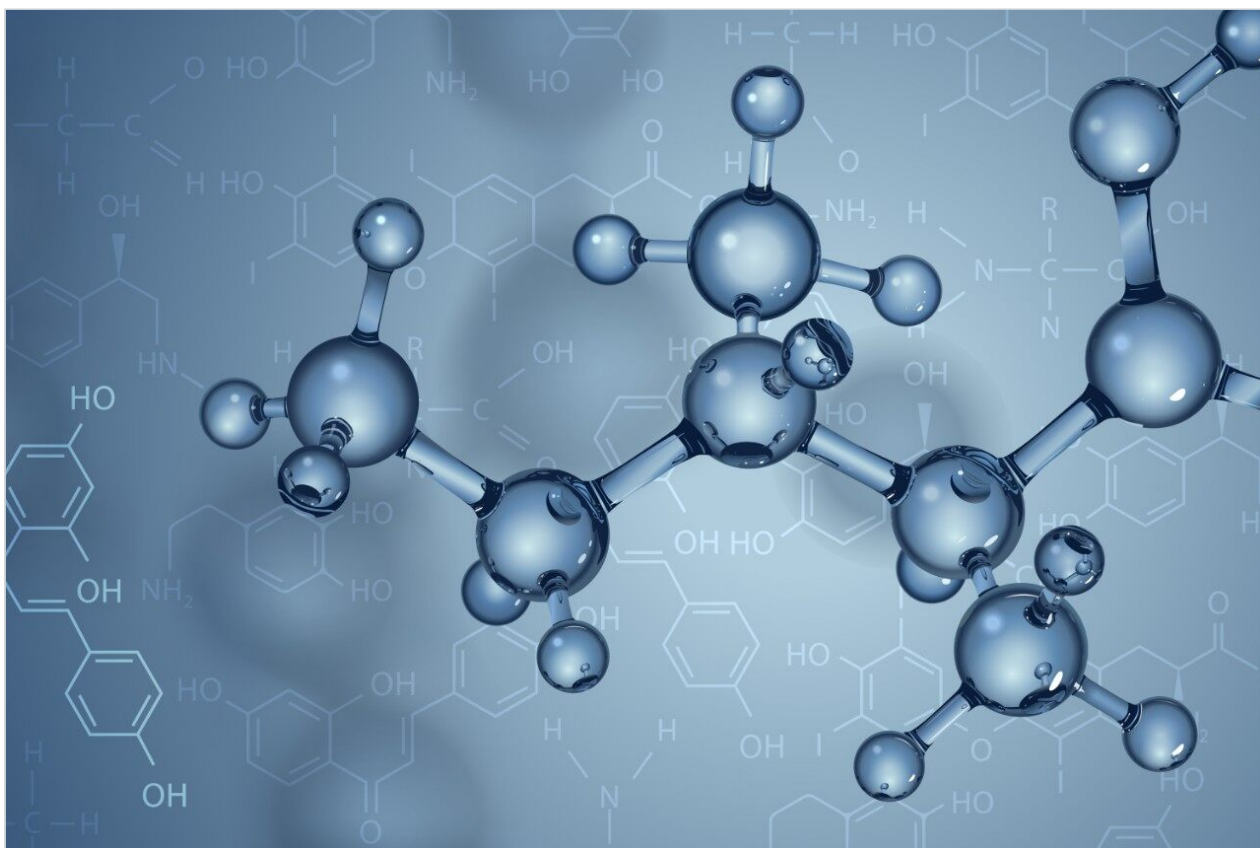


Nucleotide Triphosphates (dNTP)

Waters Corporation



This is an Application Brief and does not contain a detailed Experimental section.

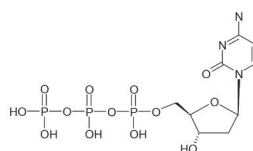
Abstract

This application brief highlights the analysis of nucleotide triphosphates using XTerra MS C₁₈ columns.

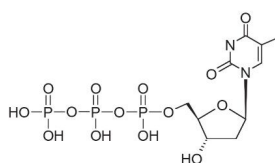
Introduction

Compounds used in this study are:

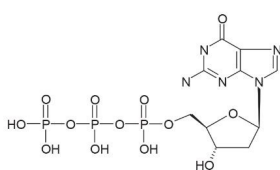
1. Deoxycytidine 5'-triphosphate
2. Thymidine 5'-triphosphate
3. Deoxyguanosine 5'-triphosphate
4. Adenosine 5'-triphosphate



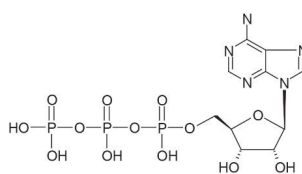
Deoxycytidine 5'-triphosphate



Thymidine 5'-triphosphate



Deoxyguanosine 5'-triphosphate



Adenosine 5'-triphosphate

Experimental

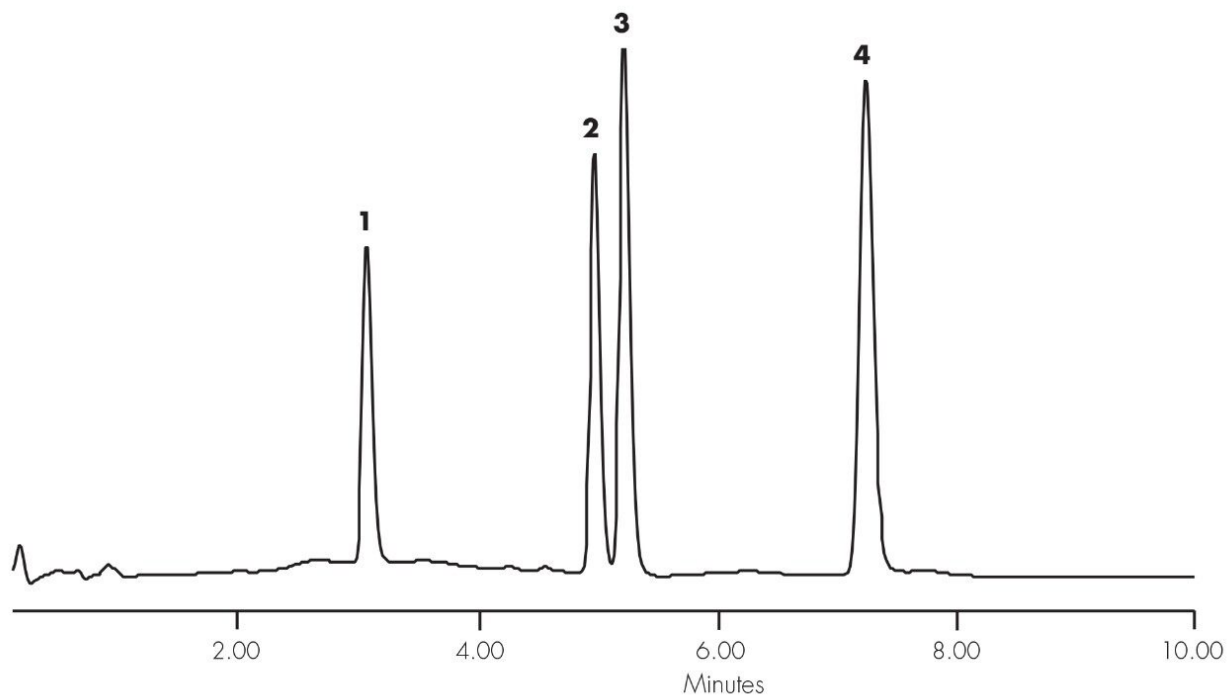
HPLC Conditions

Column:	XTerra MS C ₁₈ 4.6 x 30 mm, 2.5 µm (p/n: 186000600)
Mobile phase A:	50 mM Triethylammonium acetate, pH 7.0, 2 mM EDTA
Mobile phase B:	ACN
Flow rate:	1.0 mL/min
Injection volume:	10 µL
Detection:	UV @ 260 nm
Temperature:	20 °C
Instrument:	Alliance 2695, 2996 PDA

Gradient

Time (min)	Profile	
	%A	%B
0.0	100	0.0
2.0	98.0	2.0
9.0	94.5	5.5

Results and Discussion



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Alliance HPLC <<https://www.waters.com/514248>>

WA20738.081, June 2002