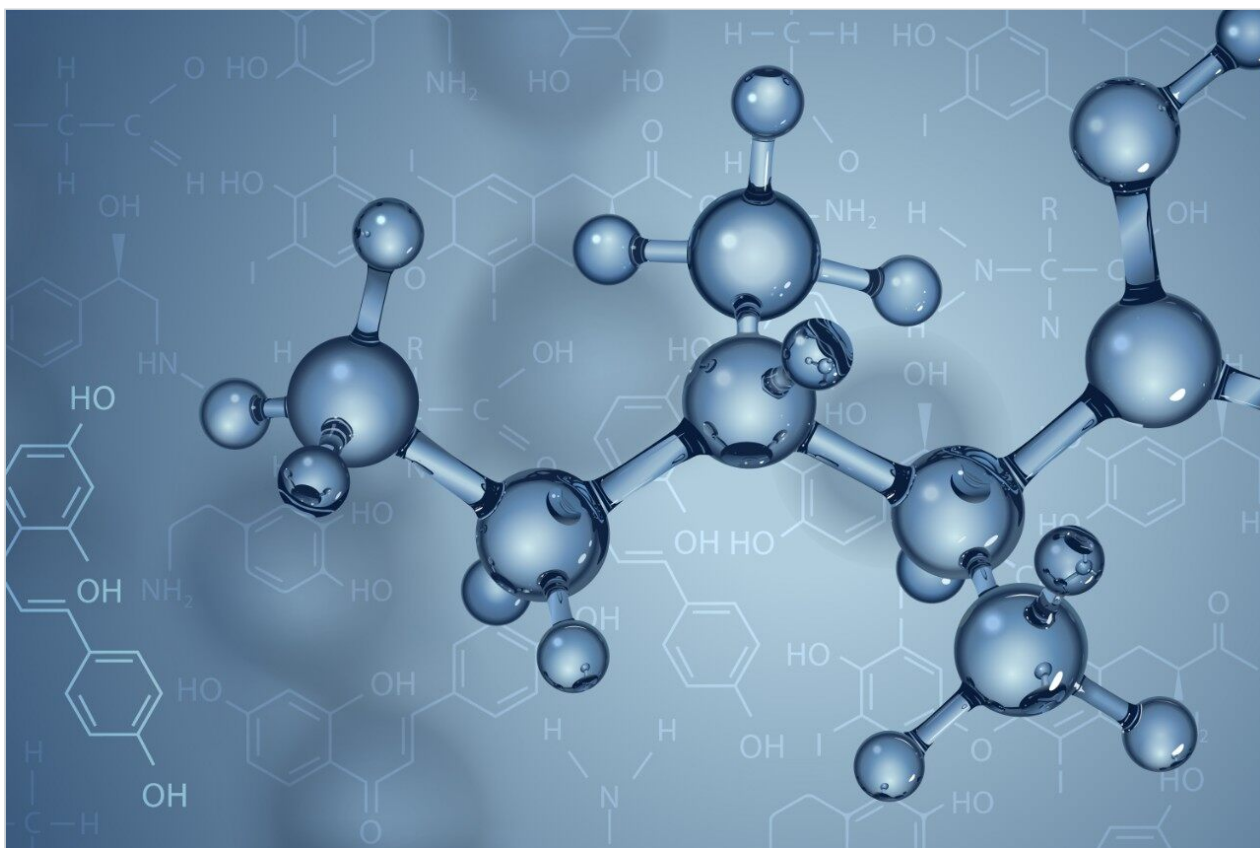


Nucleotide Triphosphates (dNTP)

Waters Corporation



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

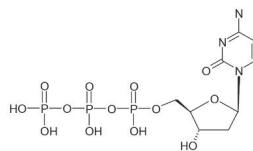
Abstract

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

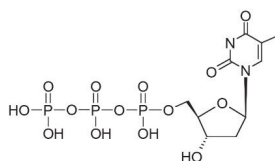
Introduction

Compounds used in this study are:

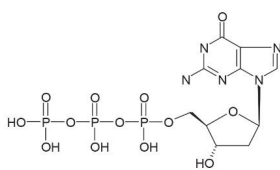
1. Deoxycytidine 5'-triphosphate
2. Thymidine 5'-triphosphate
3. Deoxyguanosine 5'-triphosphate
4. Adenosine 5'-triphosphate



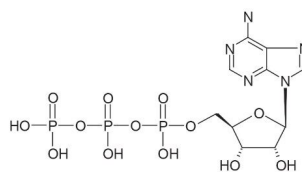
Deoxycytidine 5'-triphosphate



Thymidine 5'-triphosphate



Deoxyguanosine 5'-triphosphate



Adenosine 5'-triphosphate

Experimental

HPLC Conditions

Column: XTerra MS C₁₈ 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

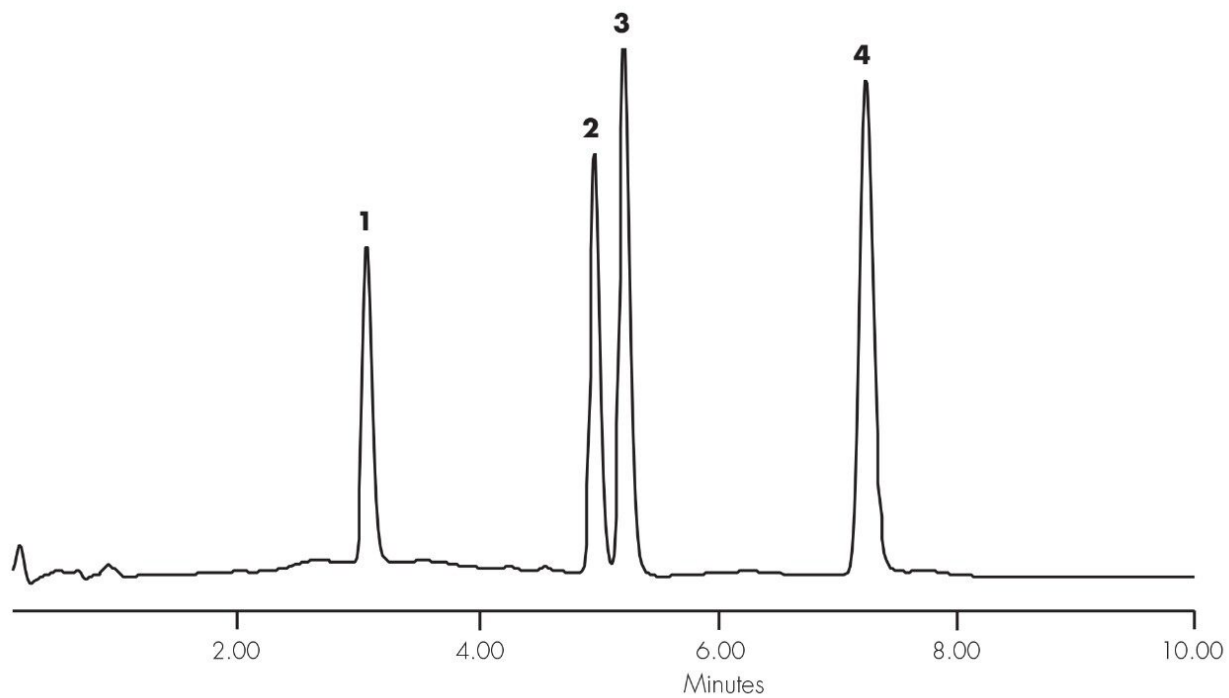
Temperature: 20 °C

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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WA20738.081, June 2002