Waters™

응용 자료

Analysis of Nucleotide Phosphates using ACQUITY UPLC BEH Amide Columns

Waters Corporation



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

Abstract

This application brief highlights analysis of nucleotide phosphates.

Introduction

Compounds analysed in this application brief:

- 1. 2'-Deoxyguanosine-5'-Triphosphate Trisodium Salt Dihydrate (dGTP) 100 μ g/mL
- 2. Thymidine 5'-monophosphate (TMP) 10 μ g/mL
- 3. 2'-Deoxyadenosine 5'-monophosphate (dAMP) 10 $\mu g/mL$
- 4. 2'-Deoxycytidine 5'-monophosphate sodium salt (dCMP) 25 μ g/mL
- 5. 2'-Deoxyguanosine 5'-monophosphate sodium salt hydrate (dGMP) 15 μ g/mL
- 6. 2'-Deoxyadenosine 5'-diphosphate sodium salt (dADP) 15 μ g/mL

Structures

2'-Deoxyguanosine-5'-Triphosphate Trisodium Salt Dihydrate (dGTP)

Thymidine 5'-monophosphate (TMP)

2'-Deoxycytidine 5'-monophosphate sodium salt (dCMP)

2'-Deoxyguanosine 5'-monophosphate sodium salt hydrate (dGMP)

2'-Deoxyadenosine 5'-monophosphate (dAMP)

2'-Deoxyadenosine 5'-diphosphate sodium salt (dADP)

Part Number: 186004802

Isocratic Mobile Phase: 80/20 MeCN/H₂O with 2 mM KH₂PO₄

Flow Rate: 0.5 mL/min

Injection Volume: 5.0 μ L (PLNO)

Sample Diluent: 80/20 MeCN/H₂O with 10 mM CH₃

 $COONH_4$ and 0.02% CH_3COOH

Column Temperature: 25 °C

Weak Needle Wash: 95/5 MeCN/H₂O

Detection: UV @ 254 nm

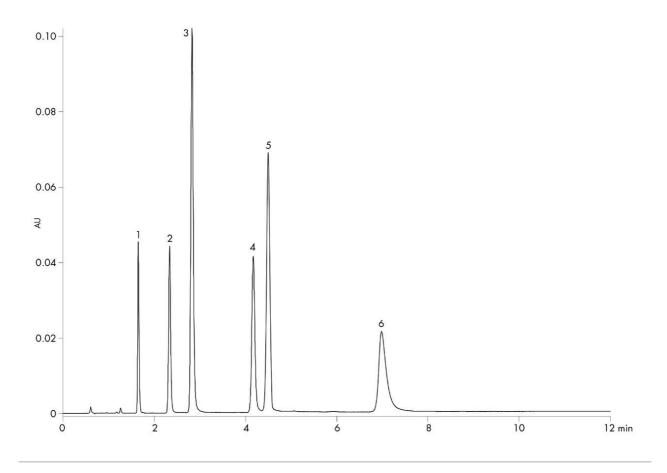
Sampling Rate: 20 points/sec

Filter Time Constant: 0.2

Instrument: Waters ACQUITY UPLC with ACQUITY

UPLC PDA Detector

Results and Discussion



1. 2'-Deoxyguanosine-5'-Triphosphate Trisodium Salt Dihydrate (dGTP) 100 μ g/mL, 2. Thymidine 5'-monophosphate (TMP) 10 μ g/mL, 3. 2'-Deoxyadenosine 5'-monophosphate (dAMP) 10 μ g/mL, 4. 2'-Deoxycytidine 5'-monophosphate sodium salt (dCMP) 25 μ g/mL, 5. 2'-Deoxyguanosine 5'-monophosphate sodium salt hydrate (dGMP) 15 μ g/mL, 6. 2'-Deoxyadenosine 5'-diphosphate sodium salt (dADP) 15 μ g/mL

Featured Products

ACQUITY UPLC System https://www.waters.com/514207

ACQUITY UPLC PDA Detector https://www.waters.com/514225

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