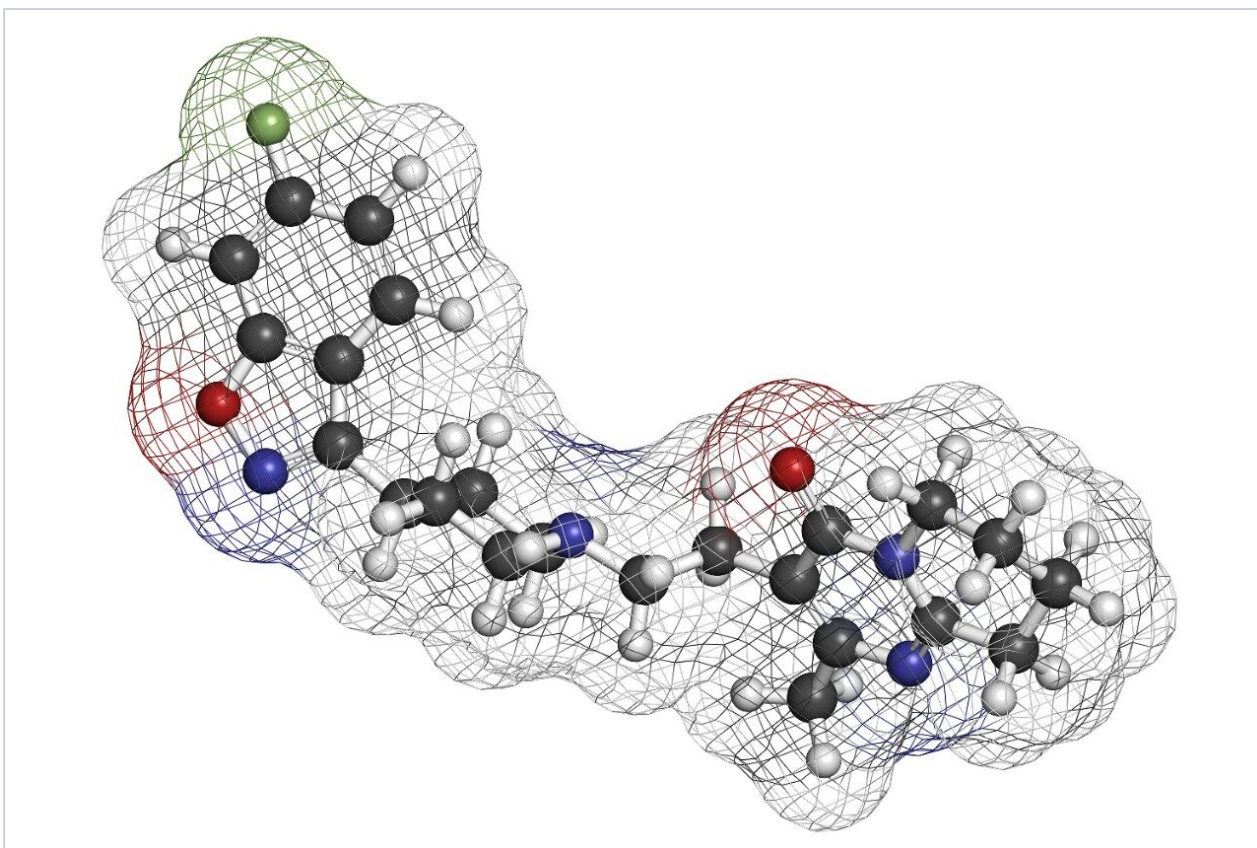


Analysis of Catecholamines Using Atlantis T3

Waters Corporation



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

Abstract

This application brief highlights analysis of catecholamines

Introduction

Compounds analysed in this application brief :

1. Norepinephrine (NE)
 2. Epinephrine (E)
 3. 3,4-Dihydroxyphenylalanine (DOPA)
 4. Dopamine (DA)
 5. 3-Methoxy-4-hydroxyphenylglycol (MHPG)
 6. 4-Hydroxy-3-methoxymandelic acid (VMA)
 7. Serotonin(5-HT)
 8. 3,4-Dihydroxyphenylacetic acid (DOPAC)
 9. 5-Hydroxy-3-indoleacetic acid (5-HIAA)
 10. 4-Hydroxy-3-methoxyphenylacetic acid (HVA)
-

Experimental

Test Conditions

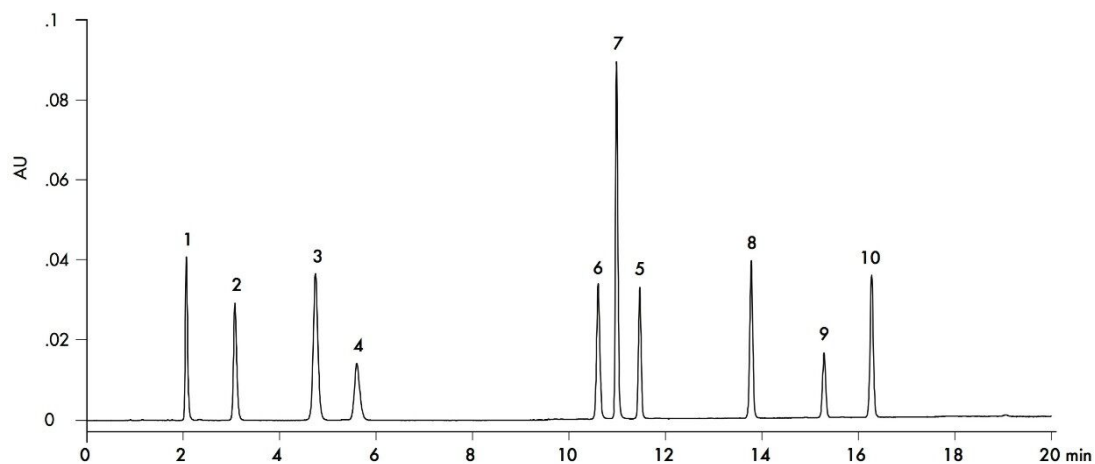
Column:	Atlantis T3, 4.6 x 50 mm, 5 µm
Part Number:	186003744
Mobile Phase A:	H ₂ O

Mobile Phase B:	ACN
Mobile Phase C:	100 mM HCOONH ₄ , pH 3.0
Flow Rate:	1.0 mL/min
Injection Volume:	10 µL
Column Temperature:	30 °C
Detection:	UV @ 280 nm
Instrument:	Waters Alliance 2695

Gradient

Time (min)	Profile
	%A
0.00	95
5.00	95
15.00	70
20.00	70
21.00	95
25.00	95

Results and Discussion



1. Norepinephrine (NE), 2. Epinephrine (E), 3. 3,4-Dihydroxyphenylalanine (DOPA), 4. Dopamine (DA), 5. 3-Methoxy-4-hydroxyphenylglycol (MHPG), 6. 4-Hydroxy-3-methoxymandelic acid (VMA), 7. Serotonin(5-HT), 8. 3,4-Dihydroxyphenylacetic acid (DOPAC), 9. 5-Hydroxy-3-indoleacetic acid(5-HIAA), 10. 4-Hydroxy-3-methoxyphenylacetic acid (HVA)

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WA60207, January 2009

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