

Application Report 32

Analysis of Norepinephrine Metabolites on Discovery HS F5

This application demonstrates the suitability of Discovery HS F5 for the analysis of norepinephrine metabolites. Structures along with the optimized chromatogram obtained on Discovery HS F5 are presented below.

Key Words

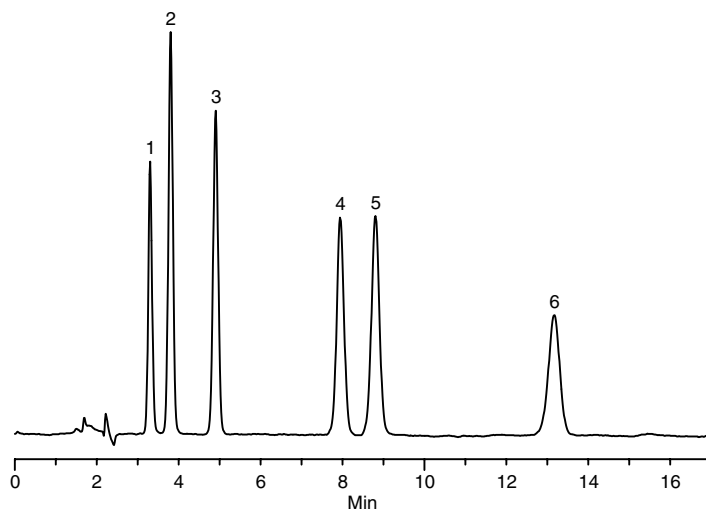
norepinephrine, noradrenaline, levarterenol, NE, N5785, 69815-49-2, normetanephine, NMN, N7127, 1011-74-1, 3,4-dihydroxymandelic acid, DOMA, D0135, 14883-87-5, vanillylmandelic acid, 4-hydroxy-3-methoxymandelic acid, VMA, 55600, 55-10-7, 3,4-dihydroxyphenyl glycol, DHPG, D9753, 28822-73-3, 4-hydroxy-3-methoxyphenylglycol, MHPG, H1377, 67423-45-4, Discovery HS F5, 567516-U

Author: Shawn R. Wyatt

Raw Data File Name: Project "s_wyatt", Result ID #4329

Acquisition System: Lab 35, Waters Alliance

Notebook Reference: 1445-37



G002091

Conditions

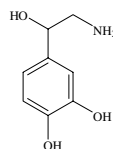
Column: Discovery HS F5, 15cm x 4.6mm ID, 5µm
Cat. No.: 567516-U
Mobile Phase: 50mM ammonium formate, pH 3 with formic acid
Temperature: 35°C
Flow Rate: 1.0mL/min
Detection: UV, 266nm
Injection Volume: 10µL
Sample: 50µg/mL each (norepinephrine metabolites) in mobile phase

Peak IDs

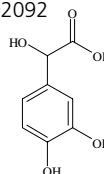
- | | |
|--------------------------------------|---|
| 1. Norepinephrine (NE) | 4. Normetanephine (NMN) |
| 2. 3,4-Dihydroxymandelic acid (DOMA) | 5. Vanillylmandelic acid (VMA) |
| 3. 3,4-Dihydroxyphenyl glycol (DHPG) | 6. 4-hydroxy-3-methoxyphenylglycol (MHPG) |

Structures

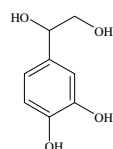
Norepinephrine (NE) - G000559



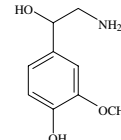
3,4-dihydroxymandelic acid (DOMA) - G002092



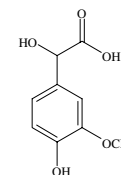
3,4-dihydroxyphenyl glycol (DHPG) - G000769



Normetanephine (NMN) - G002093



Vanillylmandelic acid (VMA) - G002094



4-hydroxy-3-methoxyphenylglycol (MHPG) - G002095

