# Catecholamines and their Metabolites in Urine by LC-MS/MS

ACE®
Ultra-inert
UHPLC & HPLC Columns

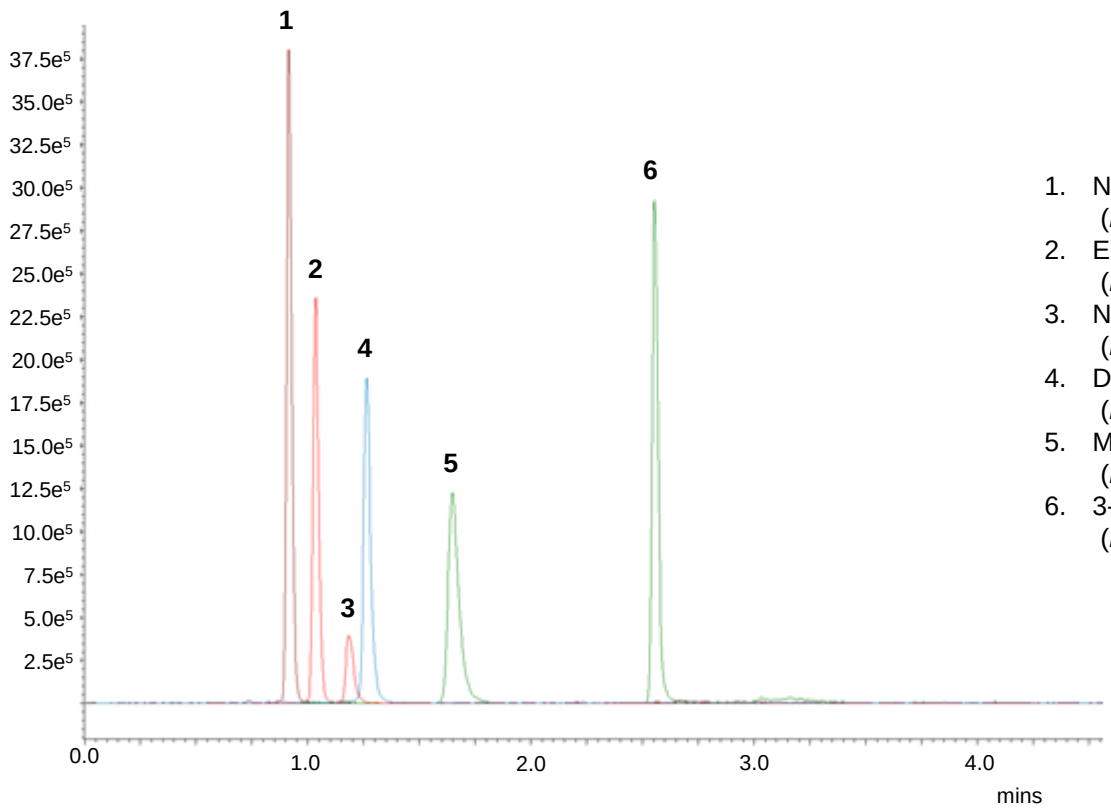
Application #**AN4040**

**Conditions**

| | |
|---|---|
| Column: | ACE UltraCore 2.5 SuperPhenylHexyl |
| Dimensions: | 100 x 2.1 mm |
| Part Number: | CORE-25B-1002U |
| Mobile Phase: | A: 2 mM ammonium formate + 0.05% formic acid in $H_2O$<br>B: 2 mM ammonium formate + 0.05% formic acid in MeOH |

| Time (mins) | %B |
|---|---|
| 0.00 | 0 |
| 1.00 | 70 |
| 1.10 | 70 |
| 1.11 | 0 |
| 4.50 | 0 |

| | |
|---|---|
| Flow Rate: | 0.3 mL/min |
| Injection: | 10 µL |
| Temperature: | 30 °C |
| Detection: | Shimadzu LCMS-8040<br>ESI in positive ion mode |
| Sample: | Standard 100 ng/mL in urine (after SPE purification) |




1. Norepinephrine (*m/z* 170 → 107)
2. Epinephrine (*m/z* 184 → 166)
3. Normetanephrine (*m/z* 184 → 166)
4. Dopamine (*m/z* 154 →91)
5. Metanephrine (*m/z* 198 → 180)
6. 3-Methoxytyramine (*m/z* 181 → 91)

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