

SUGGESTED GENERIC ABN SOLID-PHASE EXTRACTION METHOD FOR OASIS® MCX (WHOLE BLOOD)

EXTRACTING ACIDIC, NEUTRAL AND BASIC DRUGS FROM WHOLE BLOOD USING OASIS® MCX VAC RC LP
60 mg EXTRACTION CARTRIDGE - Part Number 186000380

1. PREPARE SAMPLE

- Prepare whole blood (1.0 mL) by adding deuterated internal Standard
- Dilute (9 mL) 0.1M KH_2PO_4 (or other acidic buffer)
- Vortex and centrifuge @ 3K RPM. Collect supernatant and transfer to conditioned Oasis® MCX Cartridge

2. CONDITION OASIS® CARTRIDGE

- 2 mL

3. EQUILIBRATE OASIS® CARTRIDGE

_____ mL H_2O (Phosphate Buffer can be used)

4. LOAD

- Supernatant onto Oasis® column at 1-2 mL/min.

5. WASH 1

- 2 mL- H_2O (Try 2 x 1 mL)

6. WASH 2

- 2 mL- 0.1N HCl
(Removes proteins and non-retained aqueous materials Protonates Bases)

7. WASH 3

- 2 mL - 5% MeOH in H_2O

8. DRY

- 4 min (increase vacuum 15 mm, Hg)

9. ELUTE A*

- 2 mL - 2 mL EtOH or (70/30 ACN/MeOH)
(Removes acidic and neutral drugs)

10. ELUTE

- 2 mL - 5% NH_4OH in ethanol or (5% ammonia in Ethyl Acetate) Removes basic drug(s)

11. DRY

- For GC/MS, dry fractions over Na_2SO_4

12. EVAPORATE

- @ 40° C , derivatize and reconstitute in appropriate solvent

* Note: For Acid/ Neutral compounds Collect
Eluent A otherwise treat as wash