

| | Plan - Set up | Done | |
|------------------|--|-------------|--|
| algal | 1. Prepare high concentration lysate and SPE on PPL | yes | |
| | 2. dry extract and determine [DOC] on aliquot | yes | |
| | 3. Make stocks of 1800, 600 and 200 ppm in methanol for 25µL additions | yes | |
| standards | 4. Dissolve standard vial for algae samples to 1ml with 80% methanol | yes | |
| blanks | 5. Combine 4 PPL blank vials to total 400 uL | yes | |
| | 6. Add 150µL of standard mix | yes | |
| | Plan - sample prep Plan | | |
| 1. M sample | 1. Take 15 shipped marine samples and dissolve in 100µL LCMS methanol | yes | |
| | 2. Split 50µL to 2 new vials (28 total) | yes | |
| | 3. Dry 30 vials in speedvac at 40degC | yes | |
| 2. A5M sample | 1. Take 14 shipped marine samples and dissolve in 100µL 80% methanol | yes | |
| | 2. Split 50µL to 2 new vials (28 total) | yes | |
| | 2. Add 25µL stock 200 ug/mL Algae made in point 3 of setup | yes | |
| | 3. Dry in speedvac at 40degC | yes | |
| 3. A10M sample | 1. Take 14 shipped marine samples and dissolve in 100µL 80% methanol | yes | |
| | 2. Split 50µL to 2 new vials (28 total) | yes | |
| | 2. Add 25µL stock 600ug/mL Algae made in point 3 of setup | yes | |
| | 3. Dry in speedvac at 40degC | yes | |
| 4. A100M sample | 1. Take 14 shipped marine samples and dissolve in 100µL 80% methanol | yes | |
| | 2. Split 50µL to 2 new vials (28 total) | yes | |
| | 2. Add 25µL stock 1800 ug/mL Algae made in point 3 of setup | yes | |
| | 3. Dry in speedvac at 40degC | yes | |
| 5. A sample | 1. Add 25µL stock 1800 ug/mL Algae made in point 3 of setup (28 vials) | yes | |
| | 2. Add 10µL of standard solution made in point 4 of setup | yes | |
| | 3. Dry in speedvac at 40degC | yes | |
| 6. PPL blank sam | 1. Add 18 µl of PPL blank made in point 5 of setup (28 vials) | yes | |
| | 3. Dry in fume cupboard | yes | |
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