Re-using FAME and extraction vials is cost effective however the extent to which vials should be rinsed needs to be validated to ensure vials are void of contamination that may alter results.

* All vials and caps are soaked overnight (8+hrs) in Liquinox soap.
* Vial rinsing test procedures:
  1. Vials rinsed with H2O and dried in oven at 150oC for 2hr
  2. Vials rinsed with H2O, rinsed with acetone, then dried in oven at 150oC for 2hr
  3. Vials agitated with “bottle brush”, rinsed with H2O, then dried in oven at 150oC for 2hr
  4. Vials agitated with “bottle brush”, rinsed with H2O, rinsed with acetone, then dried in oven at 150oC for 2hr
  5. Vials sonicated, rinsed with H2O and dried in oven at 150oC for 2hr
  6. Vials sonicated, rinsed with H2O, rinsed with acetone, then dried in oven at 150oC for 2hr
  7. Vials sonicated, agitated with “bottle brush”, rinsed with H2O, then dried in oven at 150oC for 2hr
  8. Vials sonicated, agitated with “bottle brush”, rinsed with H2O, rinsed with acetone, then dried in oven at 150oC for 2hr
* Test procedures were repeated twice and caps were treated in the same manner as the test vials. However, drying time for caps was reduced to 1hr
* Following rinsing procedure, 1ml of hexanes was added to each vial, the vial vortexed for approx 10s and the resulting suspension TLC plated and run to test possible lipid content.

20180115 TLC Preparations:

* Each dried vial suspended in 500uL of hexanes
* Mobile phase made at 20mL (80:20:2 Hexanes:Diethyl ether:Acetic acid)
* Stained with amido black, rinsed with water and dried
* Plate 1
  + 9 spots
  + Spot 1 -2 = treatment 1
  + Spot 3-4 = treatment 2
  + spot 5 = Tripalmitin standard 10mg/ml
  + Spot 6-7 = treatment 3
  + Spot 8-9 = treatment 4
* Plate 2
  + 8 spots
  + Spot 1 -2 = treatment 5
  + Spot 3-4 = treatment 6
  + spot 5 = Tripalmitin standard 10mg/ml
  + Spot 6-7 = treatment 7
  + Spot 8 = treatment 8