**Tracing Plan**

**Strains**:

* WT
* Mct1-del
* WT + CTP-OE
* Mct1-del + CTP-OE

**Time-points:**

* 1 hr after raffinose switch, spike 13C glucose
  + 10 min and 30 min after 13C glucose spike
* 8 hr after raffinose switch
  + 10 min and 30 min after 13C glucose spike

**Sample types**:

* Cell pellet
* Media

**Miscellaneous:**

* At each time-point, switch out all old raffinose and reconstitute cells in 2% raffinose with 0.02% 13C glucose.
* Run samples at least in triplicate
  + 4 strains x 2 time-points x 2 tracing harvests x 3 replicates = 48 samples, from which we will harvest both cells and media from (so, 96 samples to run on mass spec)
  + 4 strains x 2 time-points x 2 tracing harvests x 4 replicates = 64 samples, from which we will harvest both cells and media from (so, 128 samples to run on mass spec)
* Run on GC?
  + First experiment with just WT & mct1-del was GC, second experiment with all 4 strains was on LC