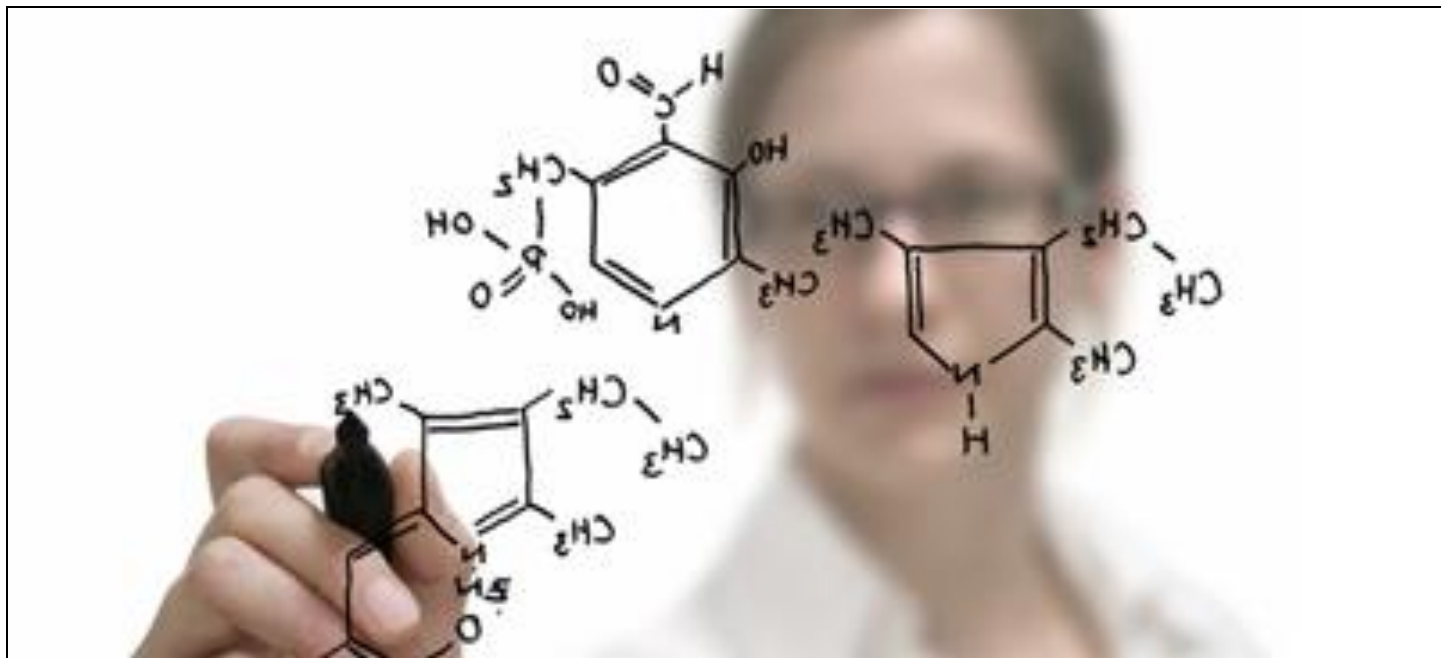
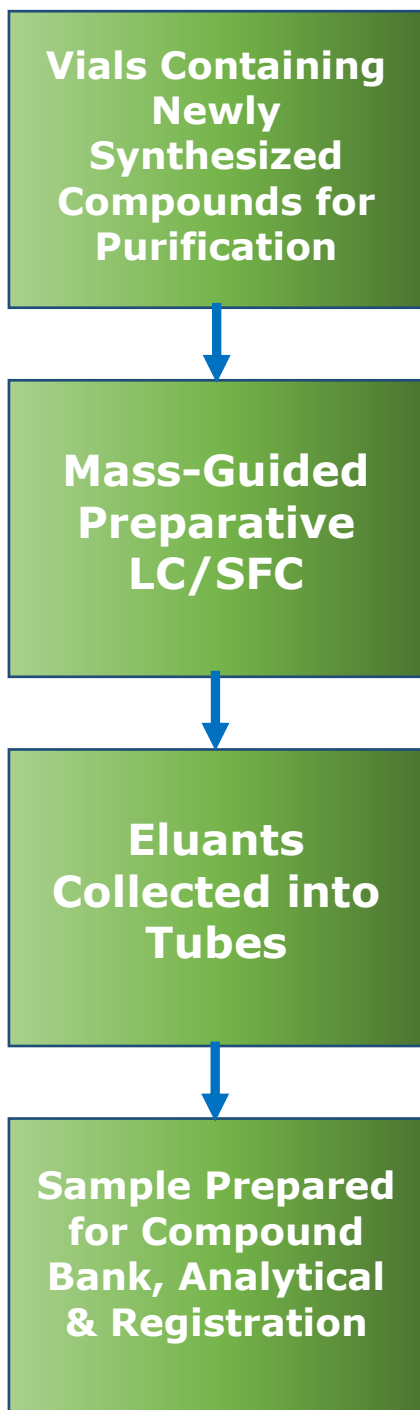


TechBrief 0314C / NCE Compound Purification



***DO YOU KNOW WHERE YOUR
PRICELESS PURIFIED NCE
COMPOUNDS ARE RIGHT NOW?***

***If your answer is,
"distributed across
several fractions"
then read on...this is for you.***



To Re-Examine the Problem;

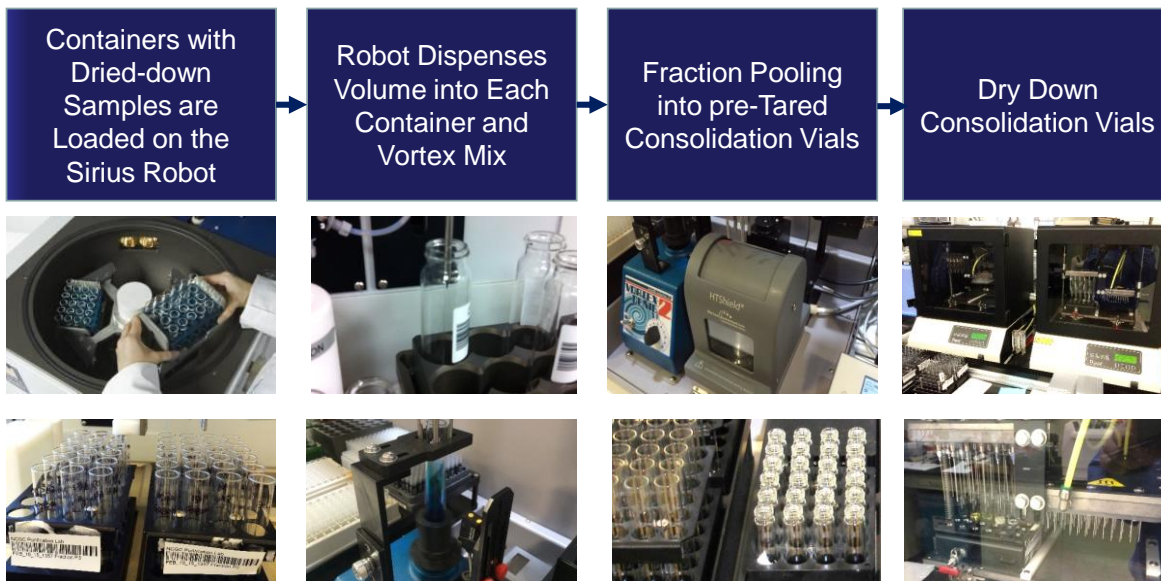
The NCE's are all in a collection of glassware in the fraction collector, and somehow, those compounds need to end up as a weighed powder in barcoded vials ready for the Solids Store AND in solution in minitubes or microplates to be sent on to the Liquid Store, DMPK & Analytical Chemistry/ Characterization.

Standard Automation doesn't do the job because you need fluidics to work with dilute slurries WITHOUT clogging up, you have to get EVERYTHING out of each tube using overdraws; Resolution MUST include calculations of MWt & yield; there must be vortex mixing to bring material off the sides of the tubes, and yes, Sonication would be a nice option.

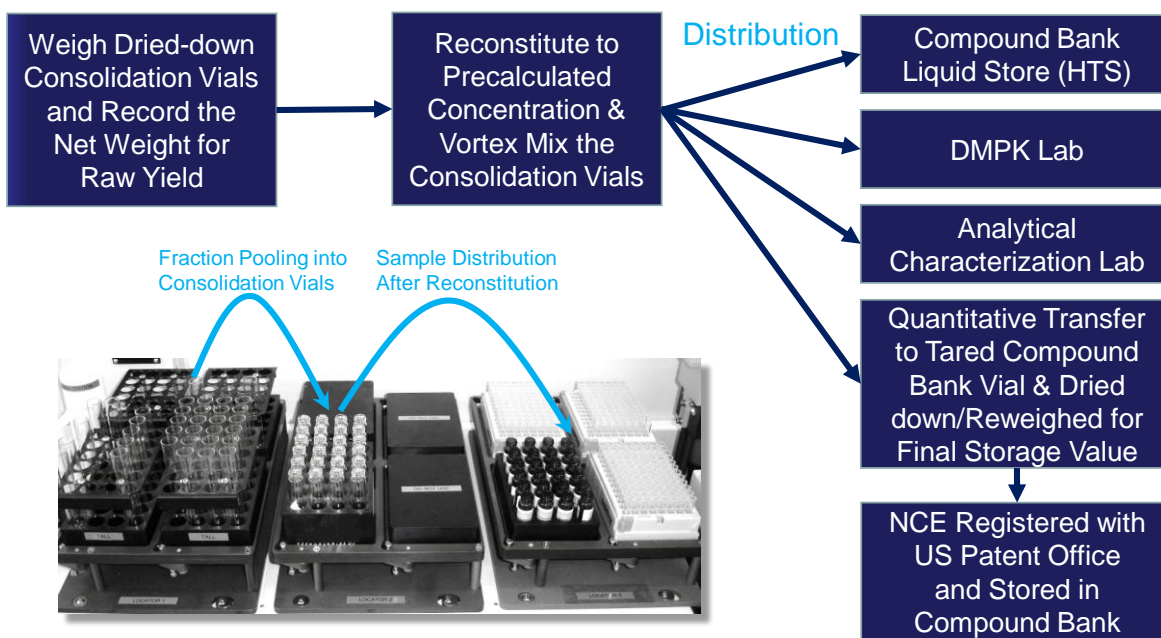
Gravimetric auditing of each step of the process and programmability to minimize any risk of compound loss would be a singular benefit too!

All of this without having to worry about managing not to bring 'human uncertainty' into a complex and error prone situation.

Detailed Flow – Part 1: Fraction Pooling



Detailed Flow – Part 2: Sample Distribution



Your **MultiTasker®** Benchtop Laboratory Robot will...



- ✓ **Interface with your LIMS**
- ✓ **Automatically Combine Fractions into a Single Container**
- ✓ **Dissolve NCE's to known concentrations**
- ✓ **Distribute Sample (to Archive Vial, mini-tubes, microplates)**
- ✓ **Vortex Mix/Sonicate**
- ✓ **Aspirate/Dispense Slurries**
- ✓ **Tare & Re-Weigh (4 or 5 place accuracy)**
- ✓ **Calculate Yields**
- ✓ **Fast Barcode Read & Verify 1D + 2D codes**

"Because not every laboratory automation problem can be solved with just another fast pipettor!"