

Nasty Happens...Let's not let it!



Goal= Safer Preservation

# However, Safer Solutions are Possible

Nature provides clues for safe and effective chemistries.



Lemon Balm, Rosemary...



Plant extracts



Microbial

# Collaboration



GC3 –Helping with Focus



Cleaning & Personal  
Care Companies



Skills and Experts



Bright eyes & Fresh ideas

# Fresh Perspective

**Adam at USDA lab**

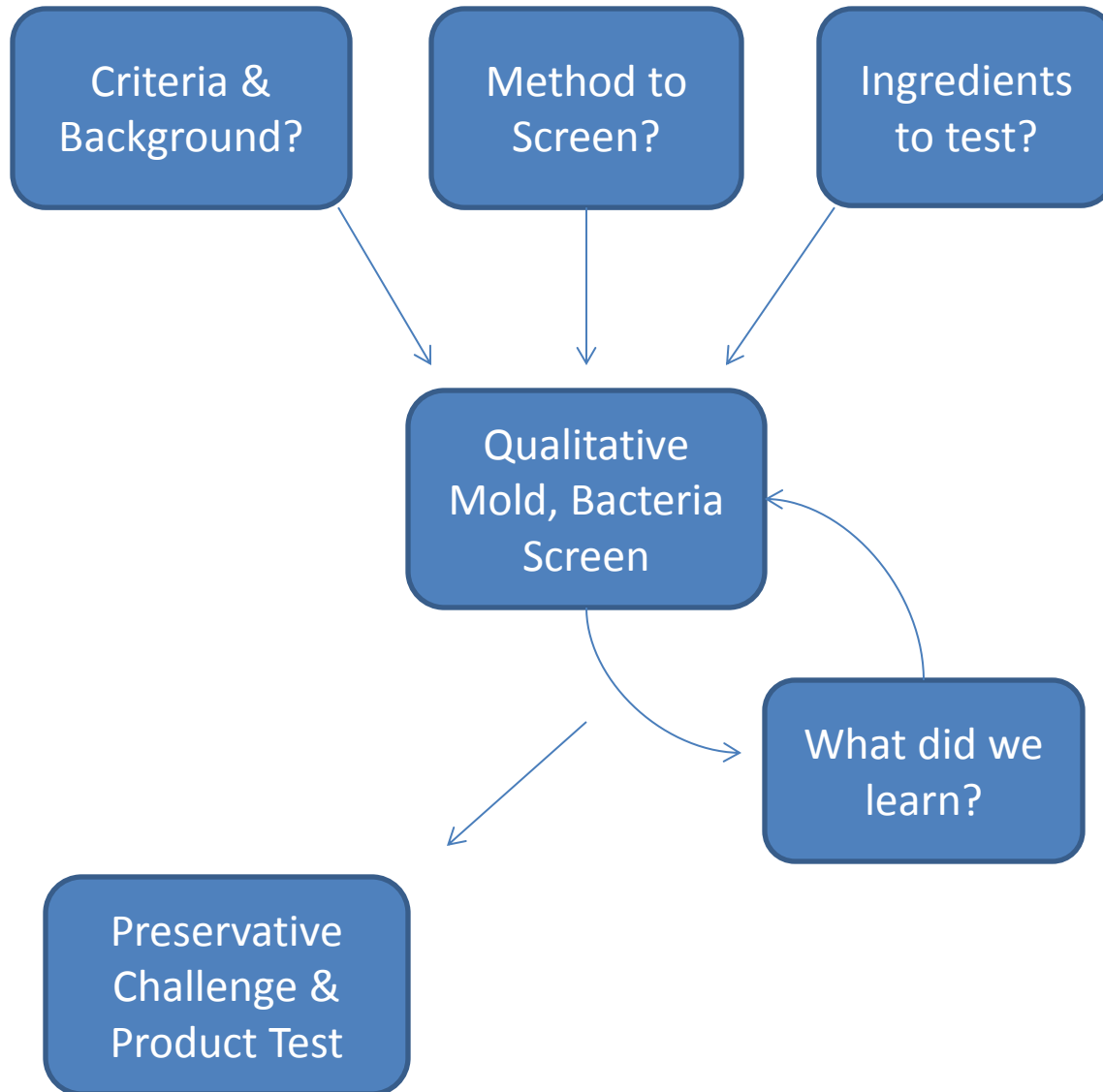


**Rapid Test**



**Growth**

# Preservation Screening



Set up questions

Rapid Screen:  
Test, learn, Iterate...

Make it real

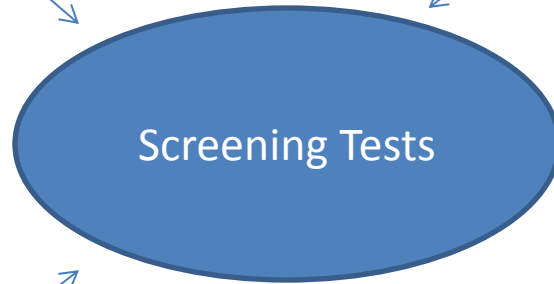
# Focus



Peptides



Chelates & trace mineral complexes



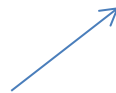
Screening Tests



Natural Phenol-like



Terpenes & essential oils



Esters & Fatty acids





# Test Update

- The Rapid Mold Test is great **Indicator!** Lots of Interesting Results & Questions.
- Next Up:
  - Bacteria Screen
  - Ingredient Combinations
  - Collaboration Expansion

Thank you! Dominic (USDA),  
Billy & Adam (UCB)

