I. Development of a HPLC method for characterization of Kreb's cycle Acids in Tobaccos. (NO derivatization, simple prep.

Approaches

- Reverse phase pH=2 10.5% KH_2PO_4 Buffer System.
  1. column effect 2. Linking 2 RCM
- Reverse phase Buffer with organic modifier optimize condition
- Ion Exclusion: Interaction Aminex A-9 0.01% H_2SO_4 Aminex HPX-87
- Reverse phase-Ion pair Tetrabutyl ammonium phosphate Buffer with ACN
- " " plus Hexadecyltrimethyl Ammonium chloride

II Evaluation of New ammoniated/denicotinized Tobacco through chemical analyses and Consumer Testing

- C30 FC Tobacco → Ammoniated by G7A process and denicotinized by JDF process.
- Monitor physical, routine and DOF analysis and elucidate the chemical changes caused by processing and storage aging
  1. Chemical Analysis 2. Amino Sugar, Amadori, DOF

III Support Technical R&D on optimization of G7 blend with screening design ~~of important components~~ to find which variables are important.

15 samples