

Laboratory Methods Documentation

Dan Raftery Laboratory
Metabolomics
GC-GC-MS Analysis
LECO Agilent 6890

Instrument Setup Method
Submitted by Lingyan Liu 11/28/2007

Sample preparation (30 samples, 6 control samples)	3 hours
Derivatization (30 samples, 6 control samples)	3 hours
GC-GC-MS run (36 total samples)	27 hours
GC-GC run goes as follows:	
2 blank samples	
1 composite sample	
10 real samples	
1 composite sample	
10 real samples	
1 composite sample	
10 real samples	
1 composite sample	
TOTAL: 36	

We are going to run the samples on LECO GCxGC/MS (Agilent 6890). Column of HP-5MS, 0.25mm inner diameter x 30m length x 0.25um film thickness is going to be used. After the Primary oven arrived at 50°C or 0.20 min, temperature will increase to 280 °C with rate of 10 °C/min, and hold at 280 °C for 5 mins. The Secondary oven will heat from 75 °C to 300 °C with the same rate and hold for 5 mins. Transfer line temperature is 250 °C. Data collection rate is 50 HZ.