

## Multi-User Analytical Lab Services and Associated Fee (2011-2012)

(Students are trained free of charge in analysis pertaining to their research projects)

Service	Unit	Clemson Academic	Non-Academic	
<b>GC and LC analysis*</b>		Per sample		
➤ Pre-prepared samples in vials				
• With known procedure		\$14	\$20	\$40
• Without known procedure		\$18	\$30	\$75
➤ Sample requiring extraction & purification**				
• With known procedure		\$20	\$25	\$275
• Without known procedure		\$35	\$60	\$275
<b>Metabolite profiling (UFLC-DAD-FLD; GC-MS)</b>		Per sample		
➤ <u>Amino acid</u> (16 compounds/sample)				
• Pre-prepared samples		\$15	\$20	\$150
• Requiring protein hydrolysis		\$20	\$25	\$250
➤ <u>Glucosinolates</u> (11 compounds/sample)				
• Pre-prepared samples		\$15	\$20	\$275
• Sample preparation + analysis		\$20	\$25	\$275
➤ <u>Polyphenols</u> (>35 phenols and flavonoids)				
• Pre-prepared samples		\$20	\$40	\$275
• Sample preparation + analysis		\$30	\$55	\$275
<b>Molecular characterization ( LC-QToF; MALDI/TOF)</b>		Per sample		
• Pre-prepared samples		\$40	-	-
<b>Data Processing</b>				
Multivariate data analysis (Chemometrics)		Project specific, check with MUAL		
Isotope-modeling and CID fragmentation analysis		Project specific, check with MUAL		
<b>Protocol/method development</b>		Per hr		
➤ Collaborative projects		0	\$25	\$125
➤ Non-collaborative projects		\$50	\$60	\$125
<b>Bacterial Identification (MIDI) Extraction</b>		Per sample	\$20	\$40
			\$90	
<b>Nitrate, ammonia, phosphate analysis</b>		Per sample per nutrient (minimum batch of 20 samples)		
➤ Pre-prepared samples		\$1.50	\$2.50	***
➤ Sample requiring extraction**		\$3	\$5	***
<b>Usage of plate reader &amp; spectrophotometer</b>		0	\$10/hr	

# Fee structure is subjected to change depending on the overall goal of the analysis

\* Standards should be supplied if not available in MUAL.

\*\*Materials not available in MUAL will be charged separately.

\*\*\* Contact Clemson Agricultural Service Laboratory

Contact [Nishanth Tharayil](mailto:Nishanth.Tharayil) to further streamline the analysis and pricing ([ntharay@clemson.edu](mailto:ntharay@clemson.edu))