

Radiocarbon Biobased Product Testing (ASTM D6866–16)

Analysis	Method	Standard 2–4 weeks	Rush 7 days	Rush 4 days
^{14}C and $\delta^{13}\text{C}$	B (AMS)	\$260*	\$450*	\$650*
^{14}C and $\delta^{13}\text{C}$	C (LSC)		<i>please inquire</i>	

*sample pretreatment, if necessary, is extra.

Radiocarbon & Stable Isotope Authenticity Testing

Analysis	Sample Size	Standard 2–3 weeks	Rush 7 days	Rush 4 days
^{14}C , $\delta^{13}\text{C}$ and δD^*	5 g	\$325	\$540	\$750
^{14}C and $\delta^{13}\text{C}$	5 g	\$260	\$450	\$650

*Required for process validation and conclusive statement.

Compound Specific & Authenticity Stable Isotope Analysis

Analysis	Sample	Standard 4–6 weeks
Compound Specific GC/IRMS $\delta^{13}\text{C}$	(≤ 5 compounds)	\$100
Compound Specific GC/IRMS $\delta^{13}\text{C}$	(> 5 compounds)	please inquire
Compound Specific GC/IRMS δD	(≤ 5 compounds)	\$100
Compound Specific GC/IRMS δD	(> 5 compounds)	please inquire
IRMS $\delta^{13}\text{C}$	organic compounds	\$20
IRMS δD	organic compounds	\$20
IRMS $\delta^{13}\text{C}$ & δD	organic compounds	\$25
IRMS $\delta^{13}\text{C}$ & $\delta^{15}\text{N}$	organic compounds	\$25
IRMS $\delta^{18}\text{O}$	organic compounds	\$20
IRMS $\delta^{18}\text{O}$ & δD	water	\$20

Isotopic Preparation and Analysis by Isotope Ratio Mass Spectrometry (IRMS)

Analysis	Description	Standard 4 –6 weeks (for samples received ready for analysis)	Comment
¹⁵ NH ₄	Ammonia Diffusion & Analysis by EA-IRMS	\$45	
Preparation	Dry & Grind	\$8	
¹⁵ N & ¹³ C	Lipid-Urea Extraction & Analysis by EA-IRMS	\$24	
¹⁵ N & ¹³ C	Analysis by EA/IRMS	\$8.50	
¹⁵ NO ₃	Nitrate Diffusion & Analysis by EA- IRMS	\$45	
Preparation	Weighing microgram subsample	\$8	
¹³ C & ¹⁸ O	Analysis by GasBench-IRMS	\$10.00 / \$12.50	*On-campus / Off-campus
¹³ C & ¹⁸ O	Weighing	\$2.75 / \$3.00	*On-campus / Off-campus
¹³ C & ¹⁸ O	Acidification	\$2.75 / \$3.00	*On-campus / Off-campus
Preparation	Acidification for IC Removal for Solids	\$7.50	
¹³ CO ₂	Manual Injection and Analysis by GasBench-IRMS	\$20	
Dissolved Organic ¹³ C	Processing & Analysis by EA-IRMS	\$25	

Total %N & %C

Analysis	Standard 4 –6 weeks
%N & %C Processing, Dry & Grind	\$8
Total %N & %C Analysis	\$5.50
Weighing microgram subsample	\$8

Total %S

Analysis	Standard 4 –6 weeks
%S Processing, Dry & Grind	\$8
%S Analysis	\$10
Weighing microgram subsample	\$8