



Wayne State University - Lipidomics Core Facility

Summary of service charges (FY 2021-22)

Service	Sample type	Description	2021-22 rates			Notes
			WSU	Non-Profit	Corporate	
Sample Preparation:						
	Solid	Protein assay	\$38.50	\$42.35	\$84.70	<i>a</i>
		Total lipid phosphorous assay	\$55.66	\$61.23	\$153.07	<i>b</i>
	Liquid	Solid Phase Extraction	\$43.60	\$47.96	\$105.51	<i>c</i>
	Liquid	Solvent extraction	\$48.86	\$53.75	\$118.24	<i>c</i>
	Liquid	Total lipid extraction and fractionation	\$136.05	\$149.66	\$329.24	<i>d</i>
	Solid	Solid Phase Extraction	\$58.26	\$64.09	\$140.99	<i>e</i>
	Solid	Solvent extraction	\$70.93	\$78.02	\$171.66	<i>e</i>
	Solid	Total lipid extraction and fractionation	\$148.90	\$163.79	\$360.34	<i>f</i>
Quantitative Analysis:						
		Single class	\$48.62	\$53.48	\$117.66	<i>g</i>
		Multiple classes	\$66.17	\$72.79	\$181.97	<i>h</i>
		Fatty acyl lipidomics	\$101.90	\$112.09	\$280.23	<i>i</i>
		Data analysis	\$97.05	\$106.76	\$266.89	<i>j</i>
		Setup	\$93.39	\$102.73	\$226.01	<i>k</i>
Qualitative Analysis:						
		Sample Analysis (per sample)	\$242.64	\$266.90	\$667.25	<i>l</i>
		Data Analysis and consultancy (per hour)	\$131.52	\$144.67	\$361.68	<i>m</i>
		Setup	\$93.39	\$102.73	\$226.01	<i>k</i>

Notes: (these charges are only tentative and may change without notice)

- a.* When the core has to measure the protein concentrations of the homogenates for normalization of the analytical data (minimum charged for 6 samples)
- b.* Assay of organic phosphorus in the lipid extract that can be used for normalization of lipid data (minimum charged for 6 samples)
- c.* Extraction of lipids from liquid samples provided by the user. Choice of the method dependent on the lipids analyzed.
- d.* Extraction of total lipids from liquid samples provided by the user and fractionation of the lipid subclasses.
- e.* Homogenization and extraction of lipids from solid samples provided by the user. Choice of the method dependent on the lipids analyzed. Protein assay, if required, charged separately.
- f.* Homogenization and extraction of total lipids from solid samples provided by the user and fractionation of the lipid subclasses. Protein assay, if required, charged separately.
- g.* Analysis of any single class of lipids (e.g. HETEs, prostaglandins, non-peptido leukotrienes, unmetabolized fatty acids, sterol esters, ceramides, etc.)
- h.* More than one class of lipids that can be analyzed together chromatographically and mass spectrometrically.
- i.* All known metabolites of polyunsaturated fatty acids from C18 to C22 (i.e. cyclooxygenase, lipoxygenase, and epoxygenase metabolites of linoleic acid to docosahexaenoic acid, including their major downstream metabolites)
- j.* No fee for the first 24 samples. Charges apply only to each additional batch of 24 samples or part thereof.
- k.* Per each batch of samples analyzed together, regardless of the number of samples in a batch.
- l.* LC-MS experiment to generate the data.
- m.* Minimum charged for 4 h. Additional charges are by the hour for data analysis. Consultancy charges are for advice on experimental planning, data interpretation, etc., and are charged in 15 min units.



Typical Cost of some common analyses

Description of analysis	Cost per sample		
	WSU	Non-Porfit	Corporate
Fatty acyl lipidomic analysis (liquid samples)	\$143	\$160	\$386
Fatty acyl lipidomic analysis (solid samples)	\$155	\$176	\$421
SPM analysis (liquid samples)	\$110	\$141	\$330
SPM analysis (solid samples)	\$124	\$157	\$365
Fatty acid analysis (unesterified from liquid samples)	\$104	\$115	\$237
Fatty acid analysis (total from liquid samples)	\$109	\$120	\$260
Fatty acid analysis (unesterified from solid samples)	\$119	\$131	\$252
Fatty acid analysis (total from solid samples)	\$131	\$144	\$275