

## Core Laboratory Services

### Core Muscle Research Laboratory

Description	Unit	Price/Unit**	Bulk Price
<b><i>Percutaneous needle muscle biopsy collection</i></b>			
Underweight ambulatory adult (BMI < 18)	1 biopsy	\$350	n/a
Normal weight ambulatory adult (BMI 18 to 25)	1 biopsy	\$300	n/a
Overweight ambulatory adult (BMI > 25 to 30)	1 biopsy	\$350	n/a
Patient with significant muscle atrophy or non-ambulatory (e.g., spinal cord injury)	1 biopsy	\$450	n/a
<b><i>Muscle biopsy tissue processing and storage</i></b>			
Specimen prepared and stored for histology	1 sample	\$100	n/a
Specimen prepared for cell culture	1 sample	\$50	n/a
Specimen prepared for mitochondrial respiration	1 sample	\$50	n/a
Specimen weighed, snap frozen, and stored for protein or RNA isolation	1 sample	\$20	n/a
<b><i>Histological Assays (including staining, imaging, and image analysis)<sup>†</sup></i></b>			
Muscle fiber type distribution (human: I, IIa, IIx)	1 specimen	\$250	10 for \$2000
Muscle fiber type distribution (rodent: I, IIa, IIx, IIb)	1 specimen	\$375	10 for \$3250
Type-specific muscle fiber size morphometry	1 specimen	\$350	10 for \$3000
Muscle tissue fibrosis index	1 specimen	\$175	10 for \$1500
Satellite cell quantitation	1 specimen	\$250	10 for \$2000
Myonuclear number per fiber	1 specimen	\$250	10 for \$2000
Capillary density	1 specimen	\$250	10 for \$2000
Intramycocellular lipid content	1 specimen	\$175	10 for \$1500
Myofiber type grouping (quantitative index)	1 specimen	\$400	10 for \$3500
Other histological assay	1 specimen	Determined on a per study basis	
<b><i>Immunoblotting (including lysate prep, protein assay, SDS-PAGE, immunoblotting, and densitometry)<sup>†</sup></i></b>			
3 target antigens	20 samples	\$1700	40 samples for \$2550
5 target antigens	20 samples	\$2500	40 samples for \$3750
Each additional target antigen after initial lysate prep	20 samples	\$600	40 samples for \$900
<b><i>Gene expression (mRNA) analysis (including RNA isolation, purification/quantitation, RT, qPCR, and analysis)</i></b>			
Single target qPCR	40 samples	\$1200	80 samples for \$1800
Each additional target gene after initial RNA prep and RT	20 samples	\$500	40 samples for \$800
<b><i>Muscle stem (satellite) cell culture studies of myogenesis (including all cell treatments and analyses)</i></b>			
Initial satellite cell isolation and cryostorage	1 donor sample	\$400	3 samples for \$1000
Proliferation assay	1 donor sample	\$500	3 samples for \$1250
Differentiation (to myotubes) and fusion assay	1 donor sample	\$600	3 samples for \$1500
Mechanical strain (Flexcell) experiment (single bout)	1 donor sample	\$800	3 samples for \$2000
Mechanical strain (Flexcell) experiment (repeat bouts)	1 donor sample	\$900	3 samples for \$2250
Pharmacologic treatment experiment (e.g., growth factors, cytokines, drugs)	1 donor sample	Determined on a per study basis	

\*\*Prices include costs of all labor, chemicals, reagents, supplies, imaging, and image analysis.

<sup>†</sup>Based on average price per primary antibody in 2013. Prices subject to increase if more expensive antibodies are used.

To contact the facility or to arrange a consultation, email [exercise@uab.edu](mailto:exercise@uab.edu) or call 975-9042

