

**SERVICE REQUISITION**  
**COMPARATIVE NEUROMUSCULAR LABORATORY**

UCSD No.

Basic Science Building, Room 2095  
 University of California, San Diego  
 La Jolla, CA 92093-0709  
 Voice (858) 534-1537  
 Fax (858) 534-7319

[http://medicine.ucsd.edu/vet\\_neuromuscular](http://medicine.ucsd.edu/vet_neuromuscular)

Email: [musclelab@ucsd.edu](mailto:musclelab@ucsd.edu)

Veterinarian: _____	Owner: _____
Clinic Name: _____	Pet: _____
Customer Number: _____	Case Number: _____
Address: _____	Species: _____
_____	Breed: _____
Phone: _____	Sex: _____
<input type="checkbox"/> Fax: _____	Age: _____
<input type="checkbox"/> Email: _____	

(Please indicate either fax or email as your preferred method for receiving results.)

History: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Tissues Submitted: \_\_\_\_\_  
 \_\_\_\_\_

**SERVICES:** **TURNAROUND TIME: (working days)**

900	Complete Muscle Profile (first muscle)	<b>7</b>	\$75.00
901	Each additional muscle	<b>7</b>	\$45.00
902	Peripheral Nerve Profile Only	<b>7</b>	\$75.00
903	Muscle Profile and Peripheral Nerve Profile	<b>7</b>	\$100.00
904	2M Antibody (Masticatory Muscle Myositis)	<b>5-7</b>	\$50.00
905	Acetylcholine Receptor Antibody (Myasthenia Gravis)	<b>5-7</b>	\$60.00
906	Lactate	<b>5</b>	\$30.00
911	Pyruvate	<b>5-7</b>	\$45.00
907	Dystrophin Immunocytochemistry	<b>14</b>	\$60.00
908	Carnitine quantitation – plasma	<b>14-21</b>	\$60.00
909	Carnitine quantitation – urine	<b>14-21</b>	\$60.00
910	Carnitine quantitation – muscle	<b>14-21</b>	\$100.00
<i>*Checks should be made payable to UC Regents</i>		<b>TOTAL</b>	\$

**Form of payment:**

Visa  Please bill us

MasterCard  Check\*

Card Number \_\_\_\_\_

Exp. Date \_\_\_\_ / \_\_\_\_  
mm yy

**SHIP OVERNIGHT EXPRESS PACKAGES FOR**

**WEEKDAY DELIVERY TO:**

Comparative Neuromuscular Laboratory

9500 Gilman Drive

Basic Science Building, Room 2095

University of California, San Diego

La Jolla, CA 92093-0709

Signature \_\_\_\_\_

(Revised 1/1/2007)

(We reserve the right to hold results for accounts more than 60 days overdue.)

## SAMPLE SUBMISSION INSTRUCTIONS

### SERUM SAMPLES (AChR RADIOIMMUNOASSAY AND 2M ANTIBODY

**IMMUNOCYTOCHEMISTRY):** 1-2 ml of serum should be sent on cold packs by an overnight service. **DO NOT SEND WHOLE BLOOD.**

AChR antibody assays

2M antibody assays

**Turnaround time:** 5-7 working days from receipt of sample.

**MUSCLE BIOPSY:** A biopsy approximately 0.5 X 0.5 X 1.0 cm should be taken from an affected but not end-stage muscle by an open biopsy procedure. The sample should be placed directly into a dry water-tight container and kept cold until shipped to the laboratory. A second biopsy of smaller size should be placed in formalin. For optimal results the sample should be shipped on cold packs and received by the laboratory within 24-36 hrs. Federal Express, UPS Red Label and Airborne Express have provided dependable overnight service. Please call with questions prior to collecting biopsy specimen. **DO NOT SEND SAMPLES ON A FRIDAY FOR SATURDAY DELIVERY.** If samples must be collected on a Friday they may be frozen in a minus 80 degree C freezer and shipped on dry ice. Dystrophin immunocytochemistry is performed on a muscle biopsy sample when requested.

**Turnaround time:** 7 working days from receipt of sample.

**NERVE BIOPSY:** A biopsy approximately 1" long should be divided with half placed on a tongue depressor in formalin or 2-3% glutaraldehyde fixative and the remainder pinned on a tongue depressor, covered with a saline moistened gauze sponge and placed into a water tight container.

**Turnaround time:** 7 working days from receipt of sample.

**PRE- AND POST-EXERCISE PLASMA LACTATES:** Blood samples should be collected in sodium fluoride / potassium oxalate tubes (grey top) at rest and following 10 minutes of exercise by running. The samples should be mixed well, centrifuged, and the plasma separated into labelled red top tubes. The samples should then be sent to the laboratory by an overnight service on cold packs.

**Turnaround time:** 5 working days from receipt of sample.

**PRE- AND POST-EXERCISE PLASMA PYRUVATES:** Make up an 8% solution of perchloric acid (PCA, Perchloric acid 60% Fisher A-228-6) by diluting 13.3 ml of 60% PCA to 100 ml in distilled water. This solution is stable refrigerated for 6 months. Immediately after blood collection, add exactly 2 ml of blood to 2 ml of 8% PCA. Mix and place on ice for 10 minutes to insure complete precipitation of protein. Centrifuge, pull off clear supernatant, then freeze supernatant. The frozen samples should be shipped on dry ice by an overnight delivery service. Samples should be collected pre-exercise, post 10 minutes of exercise, and after 30 minutes of rest and paired with plasma samples collected in sodium fluoride/potassium oxalate tubes for lactate analysis. The plasma for lactate analysis should also be separated, frozen and shipped on dry ice with the pyruvate samples. Please call if you have any questions. (858) 534-1537

**Turnaround time:** 7 working days from receipt of sample.

**CARNITINE QUANTITATION:** For a complete evaluation of carnitine status, carnitine levels should be quantitated in plasma, urine and muscle. Samples should be submitted frozen on dry ice or alternatively by an overnight service on cold packs.

Plasma carnitine - 3 ml of heparinized plasma

Urine carnitine - 10 ml of urine (free catch, catheterized sample or cystocentesis)

Muscle biopsy - 100 mg minimum of muscle tissue placed directly into a water tight container.

**Turnaround time:** 14-21 days for plasma carnitine; 14-21 working days for urine; and 14-21 working days for muscle carnitine.

**PLEASE CALL LAB IF ANY QUESTIONS: (858) 534-1537 or visit our web site**

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