

SAMPLE HANDLING

For Canine DNA Research & Testing at the University of Missouri

Blood Sample - The ideal sample for DNA extraction is 5 to 10cc's of whole blood, in **purple-topped (EDTA)** tubes (one or several, depending on tube size). For very small dogs, 3ccs should be sufficient. More volume will yield more DNA, so in this situation, a larger sample is appreciated. The blood sample needs only to be put in the tubes and rocked gently a few times to distribute the anticoagulant - do **not** spin, extract serum, or do anything further. Refrigerate if the sample is being held for any time before shipping, but do not hold the sample longer than 1 week before shipping or it may become unusable.

Frozen Semen - Frozen semen stored from deceased sires can be a source of DNA for testing. Please send 1 breeding unit (straws or pellets). They do not need to be shipped frozen, but do pack them in a crush-proof & leak-proof container. Special handling fee is \$40 for this sample, in addition to the regular testing fee.

Tissue Sample - DNA can be extracted from any cell-rich tissue. If a dog is to be tested post-mortem, a 1" cube (or equivalent) of tongue, other muscle, spleen, kidney, or liver will provide a large amount of DNA (one tissue is sufficient – do not send multiple tissues). Tissue samples should be placed in a clearly labeled freezer bag or other sterile container and frozen. **DO NOT place in formalin!** Place the bagged tissue inside another bag, freeze, and ship with a frozen cool pack (do not use dry ice, or ice cubes placed in a ziplock bag). If this is the only sample (no blood sample available), add special handling fee of \$40 to regular testing fee.

Label sample with the following:

call name - owner's last name

(If samples from several dogs are sent together, number samples and forms)

The ***Individual Dog Information Form*** that follows this instruction sheet should be completed, and a ***pedigree copy***, if available, should be included with the sample. If no pedigree information is available, please indicate this on the form. For any suspected affected dogs please include a description of the clinical signs observed and age when first noted.

Include TESTING FEE of \$65 for dogs with no clinical signs of SLEM, suspected affected pups are no charge thru July 1, 2018. Check or money order should be payable to "University of Missouri". Credit cards (Visa, Mastercard, Discover, or American Express) can be accepted.

Shipping - Ideally the sample should be shipped immediately (with a tissue sample make certain it is completely frozen first). If samples are held for a day or over a weekend, blood must be refrigerated, and tissue samples must be kept frozen. Ship for next day delivery (FedEx, US Mail-Express service, or UPS). ***Do not send on a Friday*** - there will not be anyone to accept the delivery on a weekend, and the sample could be unusable by Monday. Pack in a small insulated container (most vets have these for shipping samples to labs), with one or more frozen cool packs – DO NOT use dry ice or a baggie full of ice cubes!!

The delivery address is;

Dr. Gary Johnson - SLEM Testing
320 Connaway Hall
University of Missouri
Columbia, MO 65211

(NOTE: if UPS does not recognize 320 Connaway as a valid address, use 201 Connaway)

If you need clarification, or have any questions about any of these procedures, please contact Liz Hansen by phone (573-884-3712), email (HansenL@missouri.edu), or regular mail (321 Connaway Hall, University of Missouri, Columbia, MO 65211).

UMC BT-SLEM DNA TESTING & RESEARCH

Blood – Tissue – FTA-swab – semen - other _____

Breed: **Border Terrier**

Registered Name _____

Call name _____

Reg# _____ Birth Date _____

Male / Female - - Intact / Neutered

Microchip or Tattoo: _____

Color _____

Test Being Requested: SLEM – Spongiform LeukoEncephaloMyelopathy

Owner: name _____

Veterinarian _____

address _____

address _____

city-st-zip _____

city-st-zip _____

phone (day) _____

phone _____

phone (eve) _____

cell _____

Fax _____

EMAIL _____

EMAIL _____

******Results are reported via email – please provide complete, legible email address!!******

Report test results to (please circle): Owner Veterinarian Both

Does this dog exhibit any of the following conditions? (Please attach history for any Yes answer)

Y - N Allergies

Y - N Digestive difficulties

Y - N Arthritis

Y - N Heart Problems

Y - N Autoimmune Disorders

Y - N Hernia (where? _____)

Y - N Bite or Tooth Abnormalities

Y - N Reproductive Problems

Y - N Cancer / Tumors

Y - N Seizures

Y - N Cataracts / Vision Problems

Y - N Skin / Coat Problems

Y - N Deafness / Hearing Impaired

Y - N Skeletal Abnormalities (Hip Dysplasia, etc.)

Y - N Hindlimb weakness/paralysis

Y - N Temperament Problems (shy, aggressive, etc.)

other (please list): _____

If this is a dog with clinical signs of SLEM, please include description of observed signs

Comments / Questions / Concerns? _____

I submit this sample and pedigree for the purpose of DNA testing; I understand that DNA left over following the test may be stored for potential future research; I understand that the results of this test will be reported only to the owner listed on this form and to the veterinarian (if requested) listed here, via email or FAX; and I have supplied complete and accurate information, to the best of my knowledge.

Signed: _____ date _____

PAYMENT INFORMATION: Check or money order payable to "University of Missouri" enclosed

OR Charge to VISA-MasterCard-Discover Card# _____

Cardholder name: _____ Exp Date: _____

FEE: Clinical signs of SLEM present=free thru 7/1/18; Clinically normal=\$65; frozen semen or tissue, + \$40