



Type 3 Canine Cystinuria Marker DNA Test for Mastiff - Type Breeds

Owner Information

First Name: _____ Last Name: _____
 Street Address: _____
 City: _____ State: _____ Zip: _____ Country: _____
 Daytime Phone: _____ E-mail: _____
 Co-Owners' Name(s): _____

Dog Information *(Include a copy of dog's registration certificate.)*

Breed: _____ Registered Name: _____ Call Name: _____
 Registration #: _____ AKC CKC KC NONE Other: _____
 Birthdate (mm/dd/yy): _____ Sex: Male Female Neutered? No Yes Date of neuter: _____
 Sire's Registered Name: _____
 Dam's Registered Name: _____

Previous Cystinuria Urine Testing Information

Has this dog had a previous Cystinuria Nitroprusside Urine Test? No Yes Multiple Urine Tests No Yes

Sample Information

Samples Included: Blood (purple top tube) OR Cheek brushes two (2)
 AND *Urine PennGen Submission ID Number: _____

*NOTE: *Urine Test information and payment must be submitted separately through the PennGen website at: <http://research.vet.upenn.edu/PennGen>. If you are submitting a urine sample for this dog, please complete the next page (family & medical history, diet & supplement information) and provide the PennGen Submission ID Number.*

Authorization

My signature below certifies that I am the owner of this dog. To the best of my knowledge, the information I have supplied is accurate. I understand that the sample I have submitted may be used for further research to develop additional genetic tests for cystinuria or other inherited diseases in dogs.

Owner's Signature: _____ Date (mm/dd/yy): _____

Payment Information – (submit a separate submission form for each individual dog)

Please submit Payment for DNA Test samples (US Dollars):

FOR OFFICIAL USE ONLY:

Transaction Date: _____

- \$100 per dog **Type 3 Cystinuria DNA Marker Test** (each individual sample submitted).
 \$80 per puppy **Type 3 Cystinuria DNA Marker Test** for five (5) or more littermate tests submitted together by breeder. Maximum \$400/litter. All results for each individual puppy will be sent to the breeder. Puppies must be weaned and kept separate from their mother and not fed for at least three (3) hours before cheek brush samples are collected.

*NOTE: *Urine Test information and payment must be submitted separately through the PennGen website at: <http://research.vet.upenn.edu/PennGen>. Annual urine testing is strongly recommended for intact males over two years of age.*

Check your payment method below:

Total Payment Amount: \$ _____

- Check/Money Order (US dollars only) payable to: **Trustees of the University of Pennsylvania**
 Write "**Cystinuria DNA Test**" in memo. A single check may be written for multiple tests submitted together.

- VISA MasterCard Credit Card Number: _____ Exp. Date _____

Signature: _____ Name on Card: _____

****CONTINUE ON NEXT PAGE IF SUBMITTING A URINE SAMPLE AND TO SHARE RELEVANT MEDICAL HISTORY****

Owner's First & Last Name: _____ **Dog's Call Name** _____

Family History

Does this dog have a relative that has formed urinary tract stones, diagnosed as cystine? No Yes Unknown

Relationship of relative that formed cystine stones Sire Sibling Offspring Other: _____

Relevant Medical History

Has this dog been neutered since last nitroprusside urine test? No Yes

Date of neuter surgery if known (mm/dd/yy): _____

Has this dog had any relevant health problems including urinary tract infections, difficulty urinating, blood in his/her urine, or urinary stones? No Yes Please describe/explain current or previous health problems.

Use separate sheet of paper & attach if you need more room.

Is this dog currently taking any medication? No Yes Please list all medications this dog is currently taking.

Use separate sheet of paper & attach if you need more room.

Diet and Supplement Information

Is this dog currently taking any supplements? No Yes Please list all supplements this dog is currently taking, including the daily amount of each supplement. **Use separate sheet of paper & attach if you need more room.**

Dog's current diet: Commercial Dry Kibble Commercial Canned RAW BARF Cooked Other

Please describe diet (Brand, Specific Type/Formula...). **Use separate sheet of paper & attach if you need more room.**

Has the dog's diet or supplements changed since last Nitroprusside Cystinuria Urine Test? No Yes

Please explain any changes in diet or changes in supplements since last Nitroprusside Cystinuria Urine Test.

Use separate sheet of paper & attach if you need more room.

The "Type 3 Canine Cystinuria Marker DNA Test for Mastiff-Type Breeds" submission form is for submitting a sample for DNA testing to the University of Pennsylvania. Feel free to duplicate and distribute this form and instructions to others.

IMPORTANT INFORMATION:

- Include a valid email address to contact dog's owner.
- Include a copy of the dog's Registration Certificate.
- Blood samples are preferred for DNA testing because they have a much lower failure rate and provide more DNA.
- If the cheek brush sample fails, you will have to send in a repeat sample, delaying results.
- Puppies must be weaned, and kept separate from their mother & not fed for at least three (3) hours before cheek brush samples are collected.
- We recommend submitting blood samples from lactating bitches, unweaned puppies, or coprophagic dogs.
- *Urine Test information and payment must be submitted separately through the PennGen website at: <http://research.vet.upenn.edu/PennGen>.
- Annual Nitroprusside urine testing is recommended for intact males over two (2) years of age in conjunction with DNA testing to provide the most information for risk of forming cystine stones. (DNA testing only needs to be performed once.)
- If submitting urine, please complete the medical history and diet information above.
- Keep urine cold! Urine must be shipped chilled with frozen freezer packs in an insulated container with overnight delivery.
- Do NOT use US Postal Service.
- Deliveries cannot be received on weekends and holidays (including December 24th through January 1st). Avoid collecting and mailing samples late in the week. If necessary samples can be refrigerated over the weekend for Monday shipping.
- Results will be emailed to the owner along with a frequently asked questions document.
- READ THE CYSTINURIA SAMPLE SUBMISSION INSTRUCTIONS CAREFULLY!

PLEASE ALLOW 6-8 WEEKS FOR RESULTS TO BE PROCESSED

Last update 09-16-14



Cystinuria Sample Submission Instructions

Blood Sample Collection (performed by a veterinary clinician or nurse)

1. Label EDTA (purple top) tube with owner's last name and animal's name and registration number (i.e.; AKC #)
2. Draw a 1-2 ml blood sample from dogs or 0.5 ml from puppies weighing 120-500 grams (4.25 - 17.5).
3. The blood sample must be kept cold but not frozen until shipped. In the summer, consider sending the sample (see #5 below) with an ice pack inside a white Styrofoam box. Do not store blood longer than 2 weeks.
4. Complete required submission form and mail with sample, along with a copy of the dog's registration certificate.
5. Mail EDTA purple top tube of blood by overnight or **2-day** delivery. (DO NOT use US Postal service.) Your veterinarian may have special Styrofoam containers or cardboard mailers to send blood tubes. Please place tubes in a Ziplock™-type sealable bag, then in bubble wrap for protection. Do NOT submit samples to arrive on weekends, holidays, or between Christmas and New Year's Day.

Cheek (Cytology) Brush Collection NOTE: Blood samples are preferred because they have a much lower failure rate & provide more DNA. If the cheek brush sample fails, you will have to send in a repeat sample, delaying results.

To receive cytology brushes, send a **self-addressed, stamped, business envelope FOR EACH DOG** to:

Michael Raducha
 Ryan Veterinary Hospital, Rm. 4022
 University of Pennsylvania
 3900 Delancey Street
 Philadelphia, PA 19104-6010

1. Two brushes are needed for each dog tested. **WASH YOUR HANDS BEFORE COLLECTING SAMPLES.**
2. **TO AVOID CONTAMINATION AMONG PETS THAT SHARE WATER or FOOD BOWLS, TOYS, CHEWS, ETC.** we recommend that dogs be separated for 3 hours or overnight before swabbing them. **To avoid contamination by food, do not feed the dog for a minimum of 3 hours before you collect the sample** and do not allow him/her to be unobserved in the yard where he/she may be coprophagic (consume feces).
3. Puppies can be swabbed once they are weaned and if kept away from the dam and other pups overnight. We recommend submitting blood samples from lactating bitches, unweaned puppies, or coprophagic dogs.
4. Ask a second person to gently restrain the dog's head as you collect the sample, if necessary.
5. **If you are collecting samples from more than one dog, collect samples from one dog at a time, and always wash your hands between dogs.**
6. Label the envelopes that contain the cheek swab brushes with the owner's name AND the dog's name.
7. Open the end of the swab package that shows the word, **"peel"**, printed on it. Be careful not to touch the brush end as you remove the swab.
8. Insert the brush ends between the dog's gums and the inside of the cheek. Briskly rub the brush or twirl on the surface of the inside of the cheek for **15-20 seconds** to pick up cheek cells. **Make sure that the brush is in contact with the cheek and not just the saliva.**
9. **Allow the brush to air dry, return the brush to its original package, and tape the opened ends shut.**
10. **Repeat steps 3-5 for the other brush.**
11. Secure the brushes in a separate labeled envelope for each dog. **Do not use a sealed plastic bag to prevent mold growth.**
12. Complete required submission form and mail with sample, along with a copy of the dog's registration certificate.

Urine Collection – NOTE: Annual urine nitroprusside testing in conjunction with DNA testing is recommended for intact male dogs over the age of 2 years to provide the most information for risk of forming cystine stones. (DNA testing only needs to be performed once.)* Urine Test information and payment must be submitted separately through the PennGen website at: <http://research.vet.upenn.edu/PennGen>.

Collect urine as a free catch while the dog is urinating. A new, clean disposable pie plate or clean disposable cup is a convenient collection vessel. Urine can then be transferred to a standard urine collection/transport tube, available from a veterinarian's or physician's office. Please send between 5-10 cc of urine. If sample must be held for greater than 24 hours, please freeze the sample after placing the urine tubes in Ziploc™-type sealable plastic bags (in case the tubes break during freezing). **Provide the PennGen Submission ID Number in the "Sample Information" section of the form.**

Urine must be shipped chilled with frozen freezer packs in an insulated container with overnight delivery.

Do NOT use US Postal Service!

Ship sample(s) to:

Dr. Paula Henthorn/Cystinuria DNA Test
 Ryan Veterinary Hospital, Room 4027
 University of Pennsylvania
 3900 Delancey Street
 Philadelphia, PA 19104-6010
 Phone Number (for FedEx) 215-898-5703

Have you included?

- Signed submission form
- Copy of dog's registration certificate
- Payment (US DOLLARS)
- Blood or two cheek brush samples
- Urine specimen with PennGen Submission ID number on form
- Frozen freezer pack

NOTE: Please Do NOT submit samples that will arrive on weekends and holidays or between Christmas and New Year's Day.

PLEASE ALLOW 6-8 WEEKS FOR RESULTS TO BE PROCESSED

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