

## DNA BLOOD CARD GUIDELINES

1. The exhibitor is responsible for getting their FFA advisor or Extension Personnel the DNA for their barrows. FFA advisor or Extension Personnel will mail the cards for the barrows to the Missouri State Fair. Cards sent from individuals are not acceptable and will be returned.
2. The deadline for providing DNA sample cards is May 15. Postmarks must be posted prior to deadline, and metered-mail is acceptable.
3. DNA samples must be on a card provided by the Missouri State Fair and show the date, exhibitor name, county and animal ID number. The ID **must** be the ear notch number, listing ear tag or tattoo numbers are helpful.
4. DNA sample cards are for file reference only and does not constitute an entry into any class. Normal entry procedures must be followed per Missouri State Fair premium guide.
5. Each exhibitor may nominate a total of fifteen (15) barrows. These may be of the same or different breeds. Barrows may be purebred, crossbred or a combination to be nominated.
6. A given animal may be nominated by a brother or sister on the same card and must be marked with both names.
7. An exhibitor may enter an animal in the Missouri State Fair that does not have a DNA sample card on file, but such animals will not be eligible for Breed Champion or Grand Champion in the division. A DNA sample card will be required before an animal can be named Breed Champion or Grand Champion.

The question is: What is the rule related to taking DNA samples on non-ownership declared animals. It is ethical and within the rules for members to take a DNA sample on each animal, for each family member enrolled in the project, and send it to the Missouri State Fair. After the family members decide ownership, they will have cards on file. If they have partnerships, then they must be in compliance with rules #6 and #7 as listed above and the partnership rules of the Missouri State Fair premium guide. You can always send in more cards than you need, but it's hard to pull a card from the Missouri State Fair file, if it has not been entered.

Instructions for Blood Card Collection  
READ CAREFULLY

1. Write animal ID (ear notch), your name, breed and date on card.
2. Locate a vein on the ear or other body part from which the sample will be collected.
3. Thoroughly clean skin surface with alcohol.
4. Use sterile syringe needle to puncture the vein or skin. Use a separate needle for each animal.
5. Blot the blood onto the inside sample collection card (enough so the blood is visible on the reverse side of card). A spot the size of a quarter is ideal.
6. Always use a separate card for each animal (1 card = 1 animal).
7. Allow blood card paper to dry by laying it on its side with cover open. NEVER allow blood paper from one card to touch blood paper from another or contamination will occur.
8. **VERY IMPORTANT:** To prevent bacterial and fungal growth, which may destroy the DNA and require you to resubmit, allow card to dry completely before closing cover for storage. During wet, humid or cold days, cards may require drying in an air-conditioned or heated environment. Do NOT dry in ultraviolet light (sunlight). A household lamp can be used when placed 6-8" from sample. The card is dry when the blood turns from red to brown.
9. When card is completely dry, close cover for storage. **WET CARDS CANNOT BE PROCESSED. YOU MAY HAVE TO RESUBMIT IF CARDS ARE NOT DRY!**

Missouri State Fair Rules and Regulations

DNA Validation Card - Owership of Animals:

All individual Market Hogs entered for competition must have been owned solely by Exhibitor by May 1, 2009. A DNA Sample Card must have been mailed to the Missouri State Fair, postmarked by May 15, 2009, for each market hog entered. An animal identification (ear notch) must be included on the DNA Sample Card. DNA Validation Cards submitted to the Missouri State Fair on all junior market hogs become the property of the Missouri State Fair. Exhibitors relinquish any claim to said cards when submitted as proof of ownership. Validation Cards are stored in a secure environment at the Missouri State Fair and are destroyed in due time following the show. These samples will never be made available for cloning or any like procedure. In all market hogs at the Missouri State Fair, any DNA samples that have been harvested (collected) prior to the Sale of Champions Auction (with the exception of the DNA Validation Cards submitted to the Missouri State Fair as proof of ownership as stated above) will be considered to be the property of the exhibitor to use at their discretion. Exhibitors will not be allowed to harvest any samples after the transfer of ownership via the "fall of the hammer" at the Sale of Champions Auction unless agreed upon in writing between the buyer and the seller.

DNA BLOOD CARD ORDER FORM

Attention

Name

Address

City

State

Zip

Quantity of cards requested

\$2.00 per card

(Maximum of 15 cards per exhibitor)

Credit Card (mark one)

M/C

Visa

Exp. Date (mm/yy)

Number

Signature

Print Signature Name