

# DNA GENOTYPING PROCEDURES

## SAMPLING INSTRUCTIONS FOR IBBA BREEDERS

### DNA SAMPLE COLLECTION KIT COMPONENTS

- IBBA Sample Submission Form
- MMIG MicroCard
- 18-Gauge Hypodermic Needle
- Detailed instructions for collection and shipment of samples



### SEMEN SAMPLES

Semen straws must be labeled with appropriate animal identification. Package straws so they will be protected from bending and breakage during shipment. There is no need to ship semen straws on ice or liquid nitrogen.

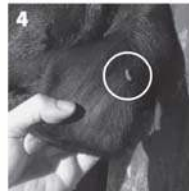
### BLOOD SAMPLING INSTRUCTIONS



1 MicroCard with and without a sample collected



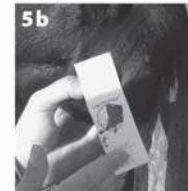
3 Piercing the ear with the needle



4 A drop of blood on the surface of the ear



5a Placing the MicroCard against the drop of blood



5b MicroCard with adequate blood filling the circle

- 1 Label the MicroCard from the Sample Collection Kit with the appropriate animal's identification (i.e. tag, tattoo or registration number).
- 2 Remove the kit's hypodermic needle from its plastic cover.
- 3 Holding the tip of the animal's ear, use the needle to gently pierce the ear two or three times with each piercing about one-eighth of an inch from each other.
- 4 Wait five to 10 seconds for a drop of blood to form.
- 5 a. Holding the back of the MicroCard, open the matchbook-styled cover and press the printed circle to the blood on the top side of the ear.  
b. If more blood is needed for the sample, press the circle on the drop of blood on the underside of the ear. For a sufficient sample, the blood blot should fill at least half of the area of the circle.
- 7 Repeat steps 1-6 for each animal being tested; always use a new needle for each animal sampled to prevent sample-to-sample contamination.
- 8 Keep sample cards separate until the bloodstains are dry. Fill out the Sample Submission Form provided, making sure to match the ID number on the MicroCard with the corresponding ID number on the paperwork.

### SHIPPING

- 1 Samples should be stored and sent at room temperature.
- 2 Do not place MicroCard blood samples in plastic baggies, as this does not allow adequate drying of the blood sample on the card.
- 3 Include an accurately completed and signed Sample Submission Form.
- 4 Mail Samples and Sample Submission Form by regular U.S. mail or express courier to:  
  
MMI Genomics, Inc.  
Attention: Cattle Support  
1756 Picasso Ave.  
Davis, CA 95618



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1756 Picasso Avenue, Davis, California 95618  
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