

TLBAA DNA Testing Procedures and Pricing

Pricing and procedures are now approved, and all DNA testing, including Parent Verification (PV) and A.I. Sire Certification will be performed by Neogen®. Results already existing from UC Davis are still valid and may be used for PV (See "Why Bundle?" for more information.)

STEP BY STEP PROCEDURES

1. Order Test SAMPLE SUPPLIES from www.igenity.com.
2. Print and fill out a DNA Request Form from www.tlbbaa.org under the forms tab (testing sample supplies must be in-hand before submitting a DNA Request Form).
3. Return DNA Request Form, with the Barcode ID written clearly, and payment to the TLBAA office. The Barcode ID must be correct and match the sample container to the animal being tested.
4. Once the DNA Request Form reaches the TLBAA office, a Work Order Form will be generated by the TLBAA. All test samples must be submitted to Neogen with a work order form. Any samples that arrive at Neogen without this work order form will not be identified.
5. When you receive your Work Order Form and order details, ensure that the Barcode ID and Animal Information matches on your test sample and Work Order Form. **DO NOT MAIL TEST SAMPLE TO TLBAA**
6. Mail test samples, with the Work Order Form, to NEOGEN
7. You will be notified when results are complete, and the TLBAA animal file will be annotated.

PRICE LIST

SNP for PV	\$15
STR for PV	\$15
BUNDLE (STR & SNP) for PV	\$25
GGP50K +IGENITY with PV	\$50
– Includes one SNP DNA Test	
– In Herd EPD capability	

TEST SAMPLE SUPPLIES

(Ordered from Igenity)

Blood Cards..... (\$0.50 per card/10 card minimum order)

Hair Cards..... (\$1.00 per card/10 card minimum order)

Tissue Sampling Unit (\$21 for 10-unit pack/Applicator gun \$45 each)

ADDITIONAL FEES to be expected:

\$4.00 Fee on ALL Hair Card Tests

Shipping and Handling

3 WAYS TO TEST

STR (Short Tandem Repeat Analysis)

- Can be used for parent verification
- Analyzes 11-14 repeating DNA markers
- Used on case-by-case basis
- Accepted DNA test
- Can be analyzed against other STR DNA tests
- Can be bundled with a SNP DNA test

SNP (Single-Nucleotide Polymorphism - "snip")

- Can be used for parent verification
- Analyzes 78-110 repeating DNA markers
- Used more regularly
- Widely accepted DNA test
- Can be analyzed against other SNP DNA tests
- Can be bundled with a STR DNA test

GGP50K (GeneSeek Genetic Profiler)

- SNP ONLY: Can be used for parent verification
- Analyzes 50,000 DNA markers
- Utilizes SNP Testing
- In Herd EPD's (Expected Progeny Differences)
- Widely accepted DNA test
- Can be analyzed against other SNP DNA tests

If you want to complete a Parent Verification DNA Test, all 3 animals must be tested by the same process: STR can only be compared to STR and SNP to SNP

FREQUENTLY ASKED QUESTIONS:

- **Why Bundle STR and SNP?**
SNP became the preferred method of Genotyping in 2012. A majority of cattle DNA tested through the TLBAA were tested on the STR method through UC Davis. STR is still reliable and available in most labs, but SNP is the future. Testing progeny with a bundle (STR and SNP) allows Parent Verification to the progeny without the need to retest dams/sires. The progeny would be the first in a pedigree to transition to SNP testing.
- **What do I do if one of my test samples receives a "fail" from the Neogen Lab?**
The owner/breeder must order and complete payment for a new DNA test and collect a new test sample. A failing test sample can be caused by contamination (dirt, hair, cleaning agents, ink/dye, etc.) or improper storage of the test sample.

NOTE: The only REQUIRED PV TESTING is for BULLS born January 1, 2019 or after.