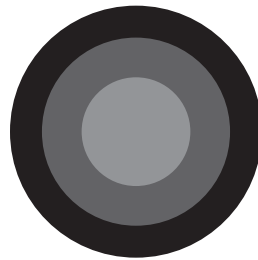


DNA Breed Identification

Test Instructions



BioPet
Vet Lab

A DIVISION OF  BIOTECH CORPORATION

toll free 866.883.7389

email info@BioPetVetLab.com

6701 Baum Drive, Suite 110

Knoxville, Tennessee 37919

www.BioPetVetLab.com

Introduction to Genetic Testing

The DNA of any dog governs the appearance of the dog as well as being related to the general behavioral characteristics of the breed.

In recent years, there has been a great deal of research performed on how differences in DNA give rise to the differences that are seen between breeds.



Advances in DNA testing technology mean that it has become possible to identify the ancestry of any dog by performing a simple test using a cheek swab. The DNA required for the test to be run is isolated from cells that are trapped on the DNA ID Card. All cells carry the same genetic material, regardless of type or location in the animal. Taking a cheek swab is therefore the easiest way to obtain the samples needed for testing.

On receipt at the BioPet testing site the samples are prepared and analyzed, resulting in a rapid and accurate determination of the breeds that have contributed to the makeup of your dog.

We believe that 92% of the mixed breed dog population in the USA is covered by our validated breeds. ●

BioPet DNA Breed Identification Test Frequently Asked Questions

Can I collect the DNA myself? Yes, the collection process is very simple and can be performed at home by following the enclosed instructions.

Does DNA collection hurt my pet? The DNA collection is painless. The gentle swabs minimize any chance of irritation.

How do I send the DNA ID Card back to BioPet? Once you have collected your DNA sample, simply place the DNA ID Card **and both swabs**, along with the Customer Information Card, in the enclosed prepaid envelope.

How long does it take to get the results? It typically takes 3-7 days for the lab to receive your sample through the US Postal Service. Results are normally mailed within 2 weeks from the receipt of the sample.



How does BioPet know which breeds are present in my dog? At BioPet, we have spent a considerable amount of time analyzing DNA from purebred dogs to build a comprehensive database that highlights the differences between different breeds. By comparing your dog's DNA with our database we can identify which breeds are present in your dog.

What is the Ancestry Analysis Certificate? The results of the DNA analysis are printed on a certificate that is suitable for framing. These results will identify the breeds present in your dog's ancestry.

Why are several breeds listed on my Ancestry Analysis Certificate, and what does the order mean? The list on the certificate shows the detected breeds in decreasing order. The most prevalent breed being listed first, the least prevalent being last.

What if there are breeds in my dog that are not in your database? We believe that 92% of the mixed breed population is covered by our validated breeds.

Will you be adding more dogs to your database? BioPet is actively working on adding more breeds to our database. ●

Terms and Conditions:

General: These terms are binding and inure the benefit of the parties and their successors, assignees or beneficiaries. These terms are the entire agreement between the parties for the DNA testing service.

Sampling Procedure: You agree to follow all the supplied procedures for DNA sample collection and forwarding. Failure to follow the procedures completely and accurately may lead to error in the analysis and you agree that BioPet shall not be liable or responsible for any error resulting from failure to follow the procedures.

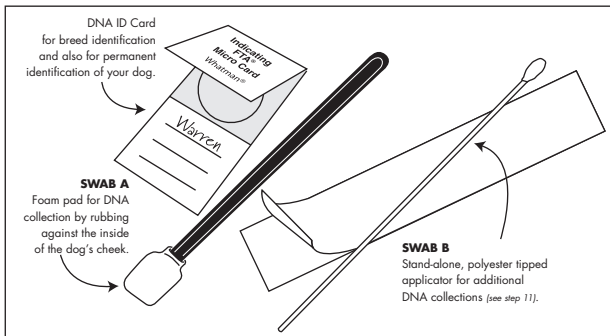
BioPet's services and disclaimer: Upon receipt of your sample, BioPet will analyze your sample to determine the breeds present in your dog's ancestry with a reasonable degree of certainty. It is possible that there may be some random changes in an individual dog's DNA that may affect the results. However, our testing procedure and database are designed to recognize that this can happen and minimize any affect. It is understood that no analytical test is 100% accurate. The *Breed Behavior, Health and Personality Summary* provided by BioPet is for informational purposes only and is based upon information publicly available on purebred dogs. It is possible for individual mixed-breed dogs to have inherited none, some, or all of the characteristics described. BioPet is not responsible for any inferences made about an individual dog based upon the provided information. BioPet's test is based upon our database of validated breeds. If your pet contains other breeds, it may give rise to the identification of breeds earlier in your pet's history and may therefore provide a seemingly unlikely result for your dog. It is also agreed that the final results of the testing will be provided in writing; any other form of results will be preliminary and non-binding. You agree that in the unlikely event of the sample being inadequate or contaminated, BioPet, at its sole discretion, may send you an additional collection kit for use on the same test subject before proceeding to analyze the sample. The *DNA ID Card* is capable of storing DNA for many years if stored under the correct conditions. BioPet cannot guarantee the performance of the *DNA ID Card* after it has been received and stored at your location.

Limited Warranty: BioPet warrants that it has the right to perform the services described in the product information. You understand and agree that BioPet makes no warranty as to accuracy of the test results, and disclaims all other warranties, including without limitation the implied warranties for fitness for a particular purpose, merchantability, or any potentially applicable warranty. BioPet does not warrant that the DNA testing performed hereunder is without defect or error or that the operation of the DNA testing services will be without error.

Limitation of Remedies: In no event will BioPet and/or any of its affiliates be responsible for any special, incidental, indirect, consequential or punitive damages, even if BioPet has been advised of the possibility of such loss or damage. BioPet's entire liability to you, and your only and exclusive remedy under the terms of this test and any circumstances surrounding the test, will be the price paid for the test. BioPet makes no warranties to third parties, and no third party shall have any rights under this agreement as a third party beneficiary or otherwise. ●

DNA Collection Device

For use with the BioPet DNA Breed Identification Test



Kit includes:

- Foam Swab enclosed with DNA ID Card
- Polyester Tipped Applicator
- Customer Information Card
- Instructions
- Self-Addressed Stamped Envelope

EDP Validated Breeds

Afghan Hound	Dalmatian	Miniature Schnauzer
Airedale Terrier	Doberman Pinscher	Newfoundland
Akita	English Setter	Old English Sheepdog
Australian Shepherd	English Springer	Pekingese
Basenji	Spaniel	Pomeranian
Basset Hound	German Shepherd Dog	Poodle
Beagle	German Shorthaired	Pug
Belgian Tervuren	Pointer	Rottweiler
Bernese Mountain Dog	Golden Retriever	Saint Bernard
Bichon Frise	Great Dane	Saluki
Border Collie	Great Pyrenees	Samoyed
Borzoï	Greyhound	Scottish Terrier
Boxer	Havanese	Shetland Sheepdog
Bull Terrier	Irish Setter	Shih Tzu
Bulldog	Irish Wolfhound	Siberian Husky
Chihuahua	Italian Greyhound	Standard Schnauzer
Chinese Shar-Pei	Labrador Retriever	Weimaraner
Chow Chow	Lhasa Apso	West Highland
Cocker Spaniel	Maltese	White Terrier
Collie	Mastiff	Whippet
Dachshund	Miniature Pinscher	Yorkshire Terrier

Instructions For Use

PLEASE NOTE: The enclosed DNA collection device may differ from that shown on the packaging.

1. Complete the Customer Information Card.
2. Do not feed the dog for at least 1 hour before sampling. Allow the dog to drink plenty of water. Check the dog's mouth to ensure no food is present.
3. If sampling multiple dogs, wash hands between each animal sampling to reduce the chance of DNA contamination.

NOTE: The DNA Breed Identification Test is NOT a saliva test. Cheek cells from the inside of your dog's mouth are required.

4. Remove the foam-tipped swab A, DNA ID card and the polyester tipped applicator (swab B) (see figure 1). To insure that we receive adequate DNA cells for analysis, we ask that you use both swabs for DNA collection.

5. Place the foam end of the swab A into the dog's mouth and rub the pad in a circular motion against the inside of the cheek for several seconds, rotating the pad so that each side of the pad is used. Swab inside each cheek twice for a total of FOUR swabbings (see figure 2).

6. Place the DNA ID card onto a firm surface and place the foam end of the swab A onto the pink portion of the card in the center of the circle (see figure 3). Roll one side of the foam swab back and forth to transfer the dog's cheek cells onto the card. Fold the paper flap over to cover the foam swab. Press firmly for ten seconds. Open flap, turn the swab over, place back on the DNA ID card. Repeat rolling and pressing process.

7. Remove the swab A from the DNA card and inspect the DNA ID card. For successful DNA collection, at least 50% of the circle on the DNA ID card will have changed from the original dark pink color to a lighter shade of pink to white.

8. If no area of the circle has changed color, repeat steps 5 through 7.

9. Some breeds of dogs have a dry mouth. If the DNA ID Card has not changed color after two attempts, add between 3 and 6 drops of water to the foam pad and repeat steps 5 through 7.

10. Once the color change has been observed, allow the DNA ID card to dry with the flap open for 30 minutes at room temperature (see figure 4).

11. The polyester tipped applicator (swab B) is a stand alone device, and does not need to be applied to a DNA ID Card. Simply collect the DNA cells using the same swabbing technique and place the swab in the prepaid envelope.

12. Write your dog's name on the card and then place the card, both swabs and the completed Customer Information Card directly into the enclosed prepaid envelope and mail to BioPet Vet lab.

13. Your dog's Ancestry Analysis Certificate and Breed Behavior, Health and Personality Summary will be mailed to you along with the DNA ID Card which can be used as a permanent identification tool for your dog. ●

