

# In US, every dog has its... DNA test

April 16 2022, by Valentin Graff

---



This handout photo courtesy of Mila Bartos on April 15, 2022 shows his dogs (from L to R) Maisie, Mabel et Natty, all of which underwent DNA tests.

The routine is now a familiar one: Open the kit, swirl a swab around, put it in solution and wait impatiently for the results. Except this time it's not a test for COVID—it's a DNA test for dogs.

The kits, which are used foremost to learn a dog's breeds, first appeared some 15 years ago and their popularity has since exploded in the United States, where nearly 40 percent of all families have at least one canine companion.

"Having a dog and integrating them as a member of your family, you want to know where they're from," said Mila Bartos, a Washington lawyer.

One of the most popular test brands, Embark Vet, told AFP it experienced 235 percent growth between 2019 and 2020 alone. And the pandemic has only amplified the trend.

At around \$100 to \$200 a pop, the tests are not cheap. But in a country where [dogs](#) are king, the price hasn't been a major deterrent for many pet owners.

In 2020 alone, Americans spent nearly \$104 billion on their animal companions, according to the American Pet Products Association—a sum that is the equivalent of the GDP of Slovakia.

## **'You want to know'**

The tests are simple: a saliva sample is taken from inside a dog's jowl

and sent by mail, with results coming back generally two weeks to a month later.

Sometimes, when a new pup parent has adopted a purebred dog, the test is meant to verify that there has been no error in the dog's one-breed lineage.

But for the owners of shelter pets, the burning question is—what IS my dog?

Bartos, 51, adopted three dogs—Natty, Maisie and Mabel—and did a DNA test for each.

Natty, she discovered, is a mix of pit bull, beagle, chow-chow and German shepherd. Results showed she even had a cousin living nearby in Baltimore.

With a luxuriously glossy brown coat, Maisie meanwhile turned out to be a descendant of a long line of show dogs.

Levi Novey, a 42-year-old consultant in the state of Virginia, said that getting a test allowed him to make more sense of his tiny dog Summer's behavior.





This handout photo courtesy of Levi Novey on April 15, 2022 shows his dog Summer, whose DNA test revealed she is a mix of at least 6 different breeds.

"For instance, her athleticism, prey drive, interest in retrieving balls, and selective choice in people she wants to be cuddly and sweet with became easier to understand given her ancestry," he said of the little black pup, who weighs only 13 pounds (six kilograms).

When New Jersey native Ashley Ternyila decided the German shepherd she adopted from a breeder looked a little too much like a wolf, she got a DNA test.

"He had quite a few wolf-like properties so for the fun of it and to put rumors to bed, we got him tested," said Ternyila.

Allen McConnell, professor of psychology specializing in the

relationship of humans and their pets, said "the owner's desire to understand, predict and anticipate their dog's actions makes wanting to know something about its breed useful in the owner's eyes."

Dog breeds carry stereotypes—Labradors as are good with children, pit bulls are aggressive watch dogs—which can often be inaccurate but also help guide understanding of the animal, he explained.

## **Genetic marker**

In addition to revealing a dog's breeds, DNA tests can also uncover predisposition to genetic disease.

The most expensive tests allow users to review their pet's DNA in search of genes that cause heart abnormalities, kidney disorders and premature deafness, among other problems.

But beware, warns veterinarian Sarah Bowman of Washington: "Just because they have a genetic marker doesn't necessarily mean they also have the condition."

The tests make it possible to be cognizant of the risk and to exercise greater caution, she said.

The American Veterinary Medical Association said it encourages owners "to consult with their veterinarians before making any decisions based on their pets' [test](#) results."

Pet parents should also consider possible ramifications of finding out their dog's breed. In many countries, certain breeds are seen as aggressive, such as pit bulls or Staffordshire terriers, and are banned from [apartment buildings](#).

If the adoptee is half pit bull "could be an issue" with a landlord, Bartos the lawyer warned.

"If you don't want to know that information, then you probably shouldn't run a breed DNA on it" Bartos said.

© 2022 AFP

Citation: In US, every dog has its... DNA test (2022, April 16) retrieved 25 April 2024 from <https://phys.org/news/2022-04-dog-dna.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.