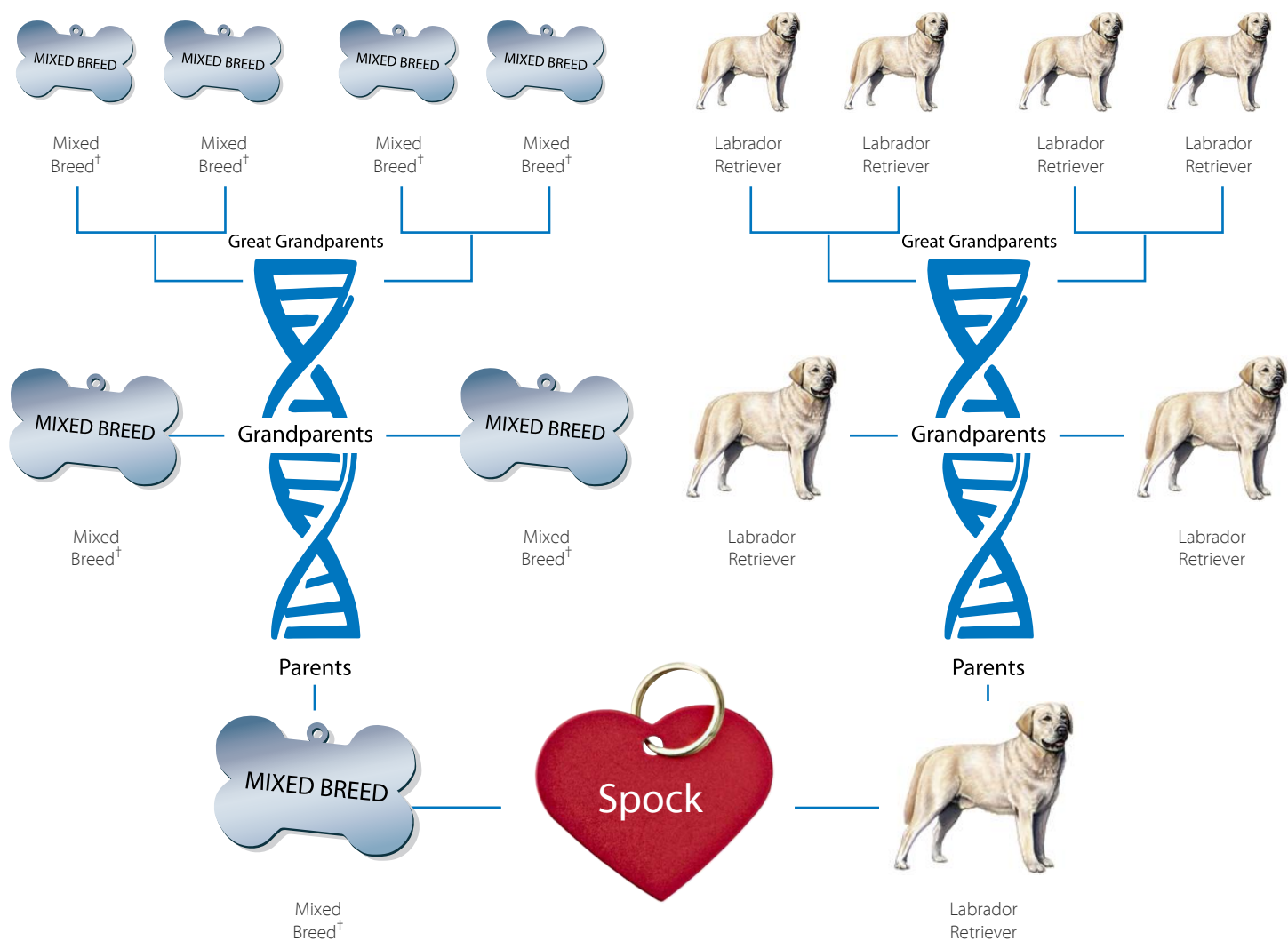


Ancestry Report

What breeds make up Spock?

The **Wisdom Panel[®] Insights[™]** computer algorithm performed over seven million calculations using 11 different models (from a single breed to complex combinations of breeds) to predict the most likely combination of pure and mixed breed dogs in the last 3 ancestral generations that best fit the DNA marker pattern observed in Spock. The ancestry chart depicting the best statistical result of this analysis is shown in the picture below.



Mixed Breed crossed with Labrador Retriever

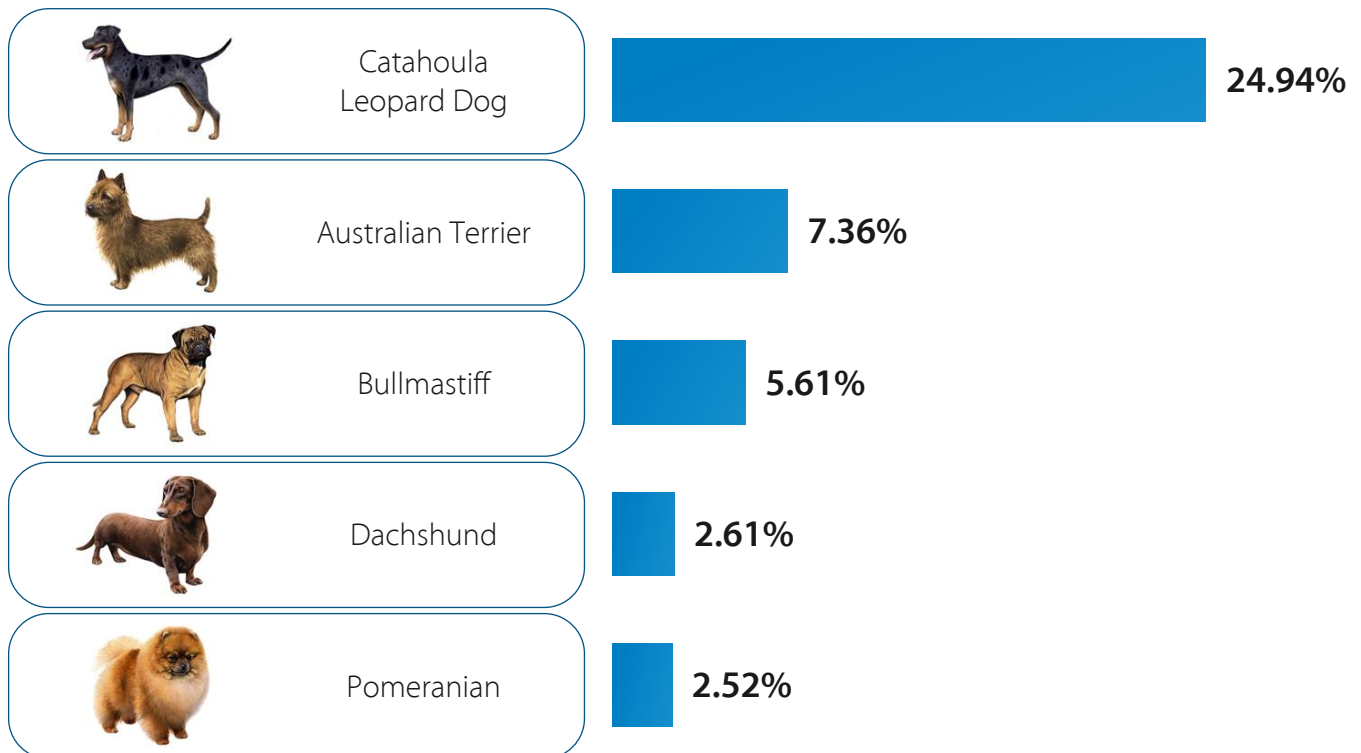


† Mixed breed Ancestor. See next page for more details...



What does the Mixed Breed Ancestor mean for my dog?

We have identified for you the 5 next best breed matches which appeared in the analysis of your dog's DNA. One or more of these breeds could have contributed to the genetic makeup of the ancestors indicated by the mixed breed icon. The breeds are listed by the relative strength of each result in our analysis with the most likely at the top of the list. There could also be a breed or breeds present in the mixed breed component that we cannot detect with our current database of purebred dogs.



How Wisdom Panel Insights Works

The process started when you sent a sample to our laboratory, where the DNA was extracted from the cells and examined for the 321 markers that are used in the test. The results for these markers were sent to a computer, that evaluated them using a program designed to consider all of the pedigree trees that are possible in the last three generations. The trees considered include a simple pedigree with a single breed (a likely pure-bred dog), two different breeds at the parental level (a first-generation cross), all the way up to a complex tree with eight different great-grandparent breeds allowed.

Our computer used information from over 185 breeds from our breed database to fill these potential pedigrees. For each of the millions of combinations of ancestry trees built and considered, the computer gave each a score representing how well that selected combination of breeds matched to your dog's data. The pedigree with the overall best score is the one which is shown on the ancestry chart. Only breeds that reached our set confidence threshold for reporting are reported in the ancestry chart.

Labrador Retriever



Height:

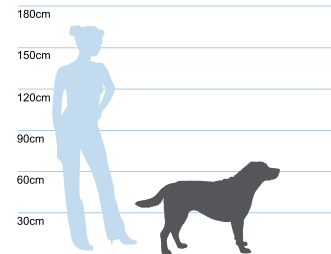
53 - 61 cm

Weight (Show):

25 - 30 kg

Weight (Pet):

22 - 35 kg



Ears:



Muzzle:

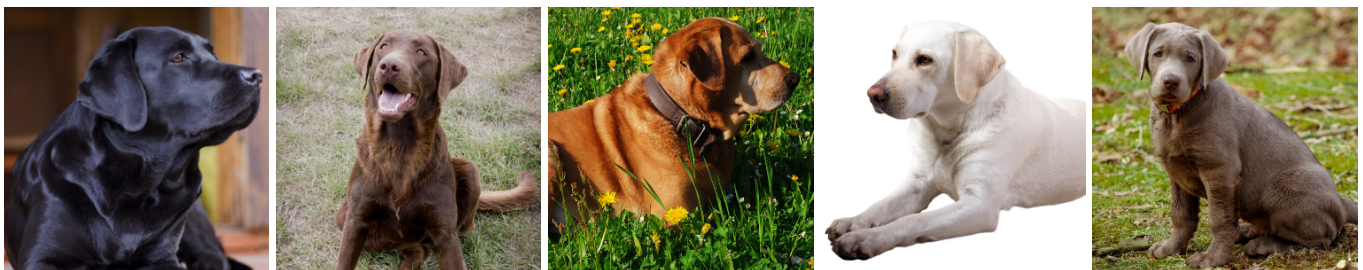


Tail:



The Labrador Retriever can trace its roots to the coast of Newfoundland, Canada. The breed dates back to at least the seventeenth century when they were known as the "Lesser Newfoundland." The breed is believed to have descended from the extinct "St. John's Water Dog" which was a cross between native water dogs and the Newfoundland. Labrador Retrievers were initially trained to retrieve fishing nets from the cold waters of the North Atlantic. Fisherman brought them to England in the nineteenth century where they were lauded for their swimming, retrieving and hunting skills. The Earl of Malmesbury is believed to have coined the name Labrador in order to differentiate them from their Newfoundland ancestors. During the 1800's, a heavy dog tax in Canada and quarantine laws in Britain drastically cut the number of Labradors in the U.K., but a good breeding program replenished the stock.

The Labrador Retriever comes in solid black, chocolate, and yellow. The yellow varies from a pale cream to a rich red fox colour. Some Labradors also have white chest blazes. The Dudley variant is where the nose is pink, though this is quite rare. Non-AKC registries sometimes recognize a Silver Variant though this may be classed as chocolate by the AKC.



Do you recognize any of these Labrador Retriever traits in SPOCK?

- Usually happy-go-lucky, calm, or easygoing dogs, though some may be energetic.
- Usually friendly and are generally good family dogs.
- Labrador Retrievers enjoy dog sports such as agility, hunting, tracking, rally and competitive obedience; retrieving and swimming.
- Quite food motivated, which may make it easier to teach the Labrador Retriever to drop retrieved items not intended for play.

Thank you for choosing Wisdom Panel Insights to learn about your dog's family ancestry

Congratulations on taking the steps to learn about your dog's ancestry and to understand what breeds are in your mixed breed dog using **Wisdom Panel® Insights™**! Knowing your dog's breeds is more than a novelty - it is a medical necessity. Each breed in your pooch's genetic paw print has unique health concerns you should know about so that you can provide a lifetime of excellent care.

Screen spock for over 30 genetic diseases

Visit www.asaplab.com.au to find out more about the genetic diseases associated with the breeds detected. You will find out about the genetic diseases relevant to breeds and incidence of these diseases. Screening for these diseases is simple and requires no further sample to be submitted. Simply discuss the request with your vet and they will contact ASAP to organise a full genetic health screen.

- Join the ASAP community of animal lovers to share your **Wisdom Panel® Insights™** Story with others: <http://www.facebook.com/pages/ASAP-Laboratories/118818211505063>
- For customer service in Australia, please contact insights@asaplab.com.au



We recommend discussing your dog's ancestry report with your veterinarian, as he or she can help you use your **Wisdom Panel® Insights™** report to help better care for Spock. The next time you visit your veterinarian, consider asking these questions in addition to any you come up with on your own:

- Are there any specific issues that may be relevant to my dog's well-being?
- Are there any special techniques that may help in training a dog with this particular mix?
- Are there any particular dietary considerations to bear in mind for a dog like mine?

Visit wisdompanel.com and use the details below to create your dog's profile:

Owner Name: Sacha Packer

Test Report Code: 8200000231



- Register your dog and upload photos into our Wisdom Panel photo gallery
- Get help to show off your dog's breed profile on your blog, Dogster page, Facebook and MySpace profiles

More insight

Learning more about the history of the breeds detected in Spock can help you and your veterinarian better train, feed and care for your dog. Visit our online Breed Library at wisdompanel.com.

TERMS AND CONDITIONS:

Each dog is unique and their physical and behavioural traits will be the result of multiple factors, including genetics, training, handling, and environment. **Wisdom Panel® Insights™** proprietary genetic analysis provides insight into the behavioural traits in breeds that have been identified in your dog. **Wisdom Panel® Insights™** is designed and intended to be used solely to identify the genetic make-up of a mixed-breed dog and no other purpose is intended, authorised, or permitted.

Upon receipt of your sample, Mars Veterinary will analyse your dog's DNA to determine the breeds present in your dog's ancestry with a reasonable degree of certainty. Mars Veterinary's testing procedures are designed to provide reliable and accurate results.

Wisdom Panel® Insights™ is intended for use on mixed-breed dogs. The test was designed specifically to look for multiple breeds in a dog's ancestry and was not designed to validate the purity of a purebred dog. Mars Veterinary is not responsible for any errors in obtaining the swab sample or for any injuries or loss that may occur as a result.

In the unlikely event that it is not possible to determine breed history or that an error in the analysis occurs, liability by Mars Veterinary or related companies and individuals is disclaimed and damages in any event are limited to the payment actually received by Mars Veterinary for the specified analysis at issue.

Wisdom Panel® Insights™ is based upon the Mars Veterinary database of validated breeds. If your dog contains other breeds, it may result in the identification of breeds, or a combination of breeds in the database, related to the breeds in your pet's history.

UK legislation dictates that ownership of dogs with particular types of breeds in their genetic background is prohibited without specific exemption from a court. You may want to check with your local authorities to determine if your dog's type is covered by the existing UK legislation. Neither Mars Veterinary nor any related company is responsible for compliance or notification regarding these matters.

Breed Ancestry Certification

Owner's name: **Sacha Packer**

Dog's name: **Spock**

Date: **December 9, 2011**

Because I  *my dog.*

Statement of Authenticity

This certifies the authenticity of Spock's canine genetic background as determined following careful analysis of more than 300 genetic markers using **Wisdom Panel® Insights™**. The purebred dog breed signature matches included in this analysis are those that were detected in the last three generations of Spock's ancestry using the proprietary breed detection algorithm at Mars Veterinary.



Dr. Neale Fretwell

Research & Development Director

