

WHAT'S YOUR DOG'S TALE?

Congratulations!

You're about to uncover the
story of your dog's ancestry.

In this report, you will find detailed results from Lily's
ADVANCE® Mixed Breed Identification DNA Test.

In the following pages, you will learn about:

Chapter 1: Breed Detection

Chapter 2: Appearance, Behaviour and History

Chapter 3: Nutrition and Wellness

It is important to carefully review your entire report and discuss the results with your
veterinarian to gain the most valuable insight into Lily.

Owner Name: **Brad Speed**

Test Report Code: **8000016**

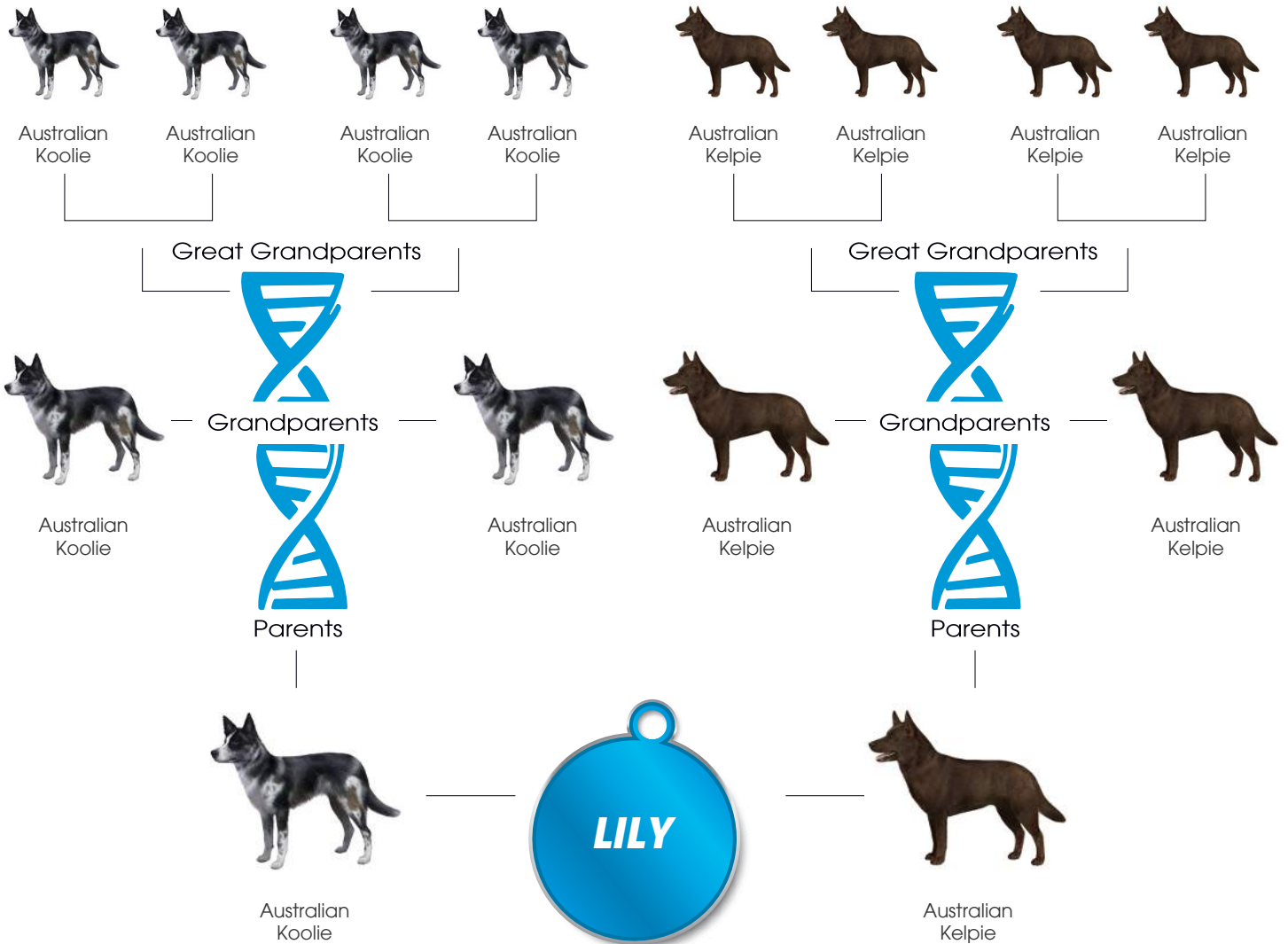
Date Printed: **May 9, 2012**



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WHAT BREEDS MAKE UP LILY?

The ADVANCE® Mixed Breed Identification DNA Test 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 three ancestral generations that best fit the DNA marker pattern observed in Lily. The ancestry chart depicting the best statistical result of this analysis is shown in the diagram below.



Australian Koolie crossed with Australian Kelpie

Learn more about the Breeds detected in Lily on the following pages...

THE INFLUENCE OF BREEDS ON APPEARANCE AND BEHAVIOUR

This report reveals the breeds detected in your dog's DNA. It also includes checklists of physical and behavioural traits associated with these breeds. Breeds can combine their influences in countless, fascinating ways. It's a unique combination that makes your dog one-of-a-kind.

Your dog may behave like - or strongly resemble - just one of the breeds in its makeup, but - much more commonly - your dog's looks and personality will blend aspects of these breeds. Consider the example below...

ADVANCE® Mixed Breed Identification DNA Test found these breeds in our example dog Riff:



Chihuahua



Toy Fox Terrier



Japanese Chin

In this example, while many of Riff's physical and behavioural traits suggest a blending of breed influences, there are certain aspects of her appearance and personality that suggest the influence of specific breeds.

PHYSICAL TRAITS:

CHIHUAHUA

An upright forward curving tail with a plume of hair is typical of the Chihuahua breed.



TOY FOX TERRIER

A strong broad muzzle, parallel to the skull beneath clear, bright dark-rimmed eyes as a common trait of Toy Fox Terriers.

BEHAVIORAL TRAITS:

JAPANESE TERRIER

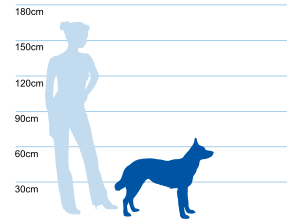
Japanese Chins are known for being quiet, docile and relaxed with their human companions.



Australian Kelpie



Height: 43 - 51 cm
Weight (Show): 11 - 20 kg
Weight (Pet): 11 - 20 kg



The Australian Kelpie is a medium sized dog breed that has been around since 1870 in its native land, where over 100,000 members of the breed are found today. They are renowned as excellent herding dogs that are thought to have been predominantly descended from "English Colleys" (Collies) that were imported to Australia during the 19th Century. The name Kelpie comes from the water Kelpie described in a book by Robert Louis Stephenson. There is a marked distinction between show and working dogs with different registries existing in Australia for the two types. Working Kelpies can be any colour and have 3 coat types: smooth, short and rough, whereas show bred Kelpies are limited to solid colours only with a short double coat. Australian Kelpies are currently recognised by the United Kennel Club in the United States.

Working Kelpies come in almost any colour with 3 types of coat: smooth, rough and short. Some also have a white blaze or points. Show dogs show less variation being solid colours on a short coat only.



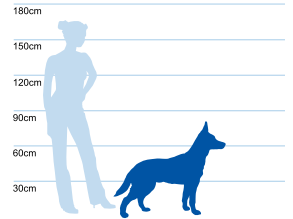
Do you recognise any of these Australian Kelpie traits in Lily?

- A magnificent herding dog that thrives in open space. Usually not suited to apartment life.
- They are easily trained and have a great appetite for work that has earned them a great reputation in their homeland.
- Australian Kelpies are extremely tough and hardy dogs that can appear tireless. Need lots of exercise.
- Will enjoy activities such as dog agility events, flyball, retrieving, Frisbee, rally, and competitive obedience.

Australian Koolie



Height: 30 - 60 cm
 Weight (Show): 15 - 22 kg
 Weight (Pet): 15 - 22 kg



The Australian Koolie breed has evolved on farms without structured breeding plans and standards from the mid 1800's, into an elite working dog with a broad range of skills and abilities. They are physically and mentally able to work all day beside their human workmate, mustering sheep, droving cattle, loading trucks, whatever is necessary - thrilled to be able to help in any way possible. At the end of the day happy to curl up at his feet in camp, keep him company and an eye out for trouble. Because of the long history of good working dog being bred to good working dog and a diverse gene pool, they have few physical problems, are easy breeding and sound. Also due to the concentration on breeding for working ability they have evolved in a range of sizes, of coat colours, coat length and ear set, which has helped them adapt to the diverse range of jobs they take on. Ears are usually pricked but can be semi pricked or dropped. They are a medium size working breed with the occasional bigger dog and some small lighter dogs which all suite the different tasks they take on.

The majority of Koolies are blue merle, short coat medium build but can be red merle, solid, tri, bi, black or red and have a medium coat with an occasional long coat.



Do you recognise any of these Australian Koolie traits in Lily?

- Do not only work sheep and cattle but can work just about any animal found on a farm.
- They are good with children and make excellent family members as long as their energy needs are met.
- Koolies are used in Explosives Detection, Rescue, Therapy, Agility, Obedience and Fly Ball.
- Have good mental stimulation and interaction with their families.

Predicted Adult Weight Profile for Lily:

Based upon the breeds detected in Lily’s ancestry and the genetic markers analysed by ADVANCE® Mixed Breed Identification DNA Test, we have calculated the likely weight that Lily should reach when an adult. ADVANCE® Mixed Breed Identification DNA Test target weight profile is presented for an entire Female as a range based on the unique mix and proportion of breeds detected.

Female Neutered
14 - 22 kg

Female Entire
12 - 20 kg

Recommended Diet:

Puppy Plus Growth All Breed – Chicken (Dry)
Puppy Plus Growth – Chicken 700g (Wet)
If feeding dry and wet food, feed half the amount of each

Feeding Guide (Dry):

Age of Puppy in Months	2	3	4	5	6	9	12	15	18	21
Weight of Adult Dog (kg)	AMOUNT OF FOOD (g/day)									
TOY < 5 kg	55	70	80	80	80	AAD*	AAD*	AAD*	AAD*	AAD*
SMALL 5 - 10 kg	105	135	145	150	150	150	AAD*	AAD*	AAD*	AAD*
MEDIUM 10 - 25 kg	185	235	260	265	270	265	AAD*	AAD*	AAD*	AAD*
LARGE 25 - 50 kg	330	435	482	500	505	505	495	490	AAD*	AAD*
GIANT > 50 kg	380	535	630	680	705	715	710	695	670	AAD*

1 Standard metric cup = 115g. The above is a guide only, monitor your pets body condition for optimal health. *AAD = Move to ADVANCE Adult Dog product



\$10 off next purchase of **ADVANCE®**

at
Dr Jana’s Veterinary Centre
323 WAGGA ROAD, LAVINGTON NSW 2641
Dr. Jana Stevenson

LILY
Owner: Brad Speed
8000016 May 9, 2012

TERMS AND CONDITIONS: Present this voucher at your local veterinary clinic to receive \$10 off your next purchase of any ADVANCE® dry product. One coupon per dog. Only valid at the above named veterinary clinic. Not valid with other promotions. Offer valid up to 12 months from date of report.

Thank you for choosing the ADVANCE® Mixed Breed Identification DNA Test to uncover the story of your dog's ancestry!

Congratulations on taking the steps to learn your dog's ancestry and to understand what breeds are in your mixed breed dog using the ADVANCE® Mixed Breed Identification DNA Test. Knowledge of your dog's genetic ancestry is more than a novelty – it is important to their health and wellbeing. Each breed in your dog's genetic family tree has unique health concerns you should know about so that you can provide a lifetime of excellent care.

Screen Lily for over 35 genetic diseases

Boxer Cardiomyopathy	GM1 – Gangliosidosis	Progressive Retinal Atrophy - cord1
Canine Hyperuricosuria	Hereditary Cataract	Progressive Retinal Atrophy - rcd 3
Canine Leucocyte Adhesion Deficiency	Ivermectin Sensitivity MDR1	Progressive Retinal Atrophy -Rcd1
Cerebella Ataxia	L-2- hydroxygutric Aciduria	Progressive Retinal Atrophy -rcd1a
Congenital Hypothyroidism	Mucopolysaccharidosis	Pyruvate Kinase Deficiency
Congenital Stationary Night Blindness	Muscular Dystrophy X-linked (MDX)	Renal Dysplasia
Copper Toxicosis	Myotonia Congenita	von Willebrand's Disease Type I
Cystinuria	Myotubular Myopathy X linked	von Willebrand's Disease Type III
Degenerative Myelopathy	Narcolepsy	
Dilated Cardiomyopathy	Natural Bob Tail	
Exercise Induced Collapse	Neonatal Encephalopathy	
Factor VII Deficiency	Neuronal Ceroid Lipofuscinosis	
Familial Nephropathy	PDP Deficiency	
Fucosidosis	Phosphofructokinase Deficiency	
Globoid Cell Leukodystrophy	Primary Lens Luxation	

Highlighted diseases are those associated with the breeds discovered in Lily's genetic ancestry.

Visit www.asaplab.com.au/breedspecifichealth 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 (please note that samples are stored for three months). Simply discuss the request with your veterinarian and they will contact ASAP to organise a full genetic health screen. This may help in the early detection of diseases as well as assist in planning a care and wellness program for Lily.

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Tell Your Dog's Tale



Visit www.facebook.com/ADVANCEpet and join our online community of dog lovers and share your dog's ADVANCE® Mixed Breed Identification DNA Test report.

PLEASE NOTE: Each dog is unique and their physical and behavioural traits will be the result of multiple factors, including genetics, training, handling, and environment. ADVANCE® Mixed Breed Identification DNA Test's proprietary genetic analysis provides insight into the behavioural traits in breed that have been identified in your dog, the predicted genetic adult weight and breed related risk of developing certain genetic diseases. A dog's weight range can vary significantly depending on age, diet and exercise. The ADVANCE® Mixed Breed Identification DNA Test is not intended to diagnose diseases or predict behaviour in any particular dog.

If the test results indicate that your dog is partly or wholly of a breed that is restricted in your State or Territory, you may have obligations to update the registration information for your dog, to apply for a special permit, or to meet other requirements relating to the ownership and care of your dog. Please contact your local council for further information regarding which breeds are restricted in your State or Territory and your obligations in respect of such dogs.

Breeds restricted in most parts of Australia include: Perro de Presa Canario (Presa Canario), American Pit Bull Terrier (Pit Bull Terrier), Japanese Tosa, Dogo Argentino and Fila Brasileiro.

This test may not identify all of these restricted breeds. If you are concerned that your dog may be partly or wholly of a restricted breed, you should contact your local council for information about how to obtain further testing.

ADVANCE® Mixed Breed Identification DNA Test is designed and intended to be used solely to identify the genetic make-up of a mixed-breed dog. It is not designed to validate the purity of a purebred dog, and test results should not be relied upon as official certification of your dog's genetic make-up, including for the purposes of the laws relating to restricted breeds.

The ADVANCE® Mixed Breed Identification DNA Test has been adapted from the US Wisdom Panel Professional Mixed-Breed Identification test for use on Australian dogs. Validation testing conducted for the Wisdom Panel Professional test resulted in Sensitivity of 97% and Positive Predictive Value of 90% in first-generation US crossbred dogs of known parentage. The breeds included in the panel for the Wisdom Panel validation study represented 45% of American Kennel Club registrations. Breeds detected at the lowest level of certainty were not included in the accuracy calculation.

The ADVANCE® Mixed Breed Identification DNA Test has not undergone equivalent validation trials for Australian dogs, but modelling and research indicate that it is likely to have similar average accuracy to the Wisdom Panel Professional test. Accuracy for an individual dog may be greater or less than average, depending on an individual dog's lineage and origin.

Should you have any queries about this product, please contact us: Telephone 1800 640 111, or write to Reply Paid No 4, ADVANCE® Customer Enquiries, PO Box 153, Wodonga, VIC 3689 © Registered Trademark. TM Trademark. © Mars.

ADVANCE®

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Breed Ancestry Certification

The ADVANCE® Mixed Breed Identification DNA Test certifies that:

Lily

is a genetic mixture of the following canine breeds:
Australian Kelpie and Australian Koolie.

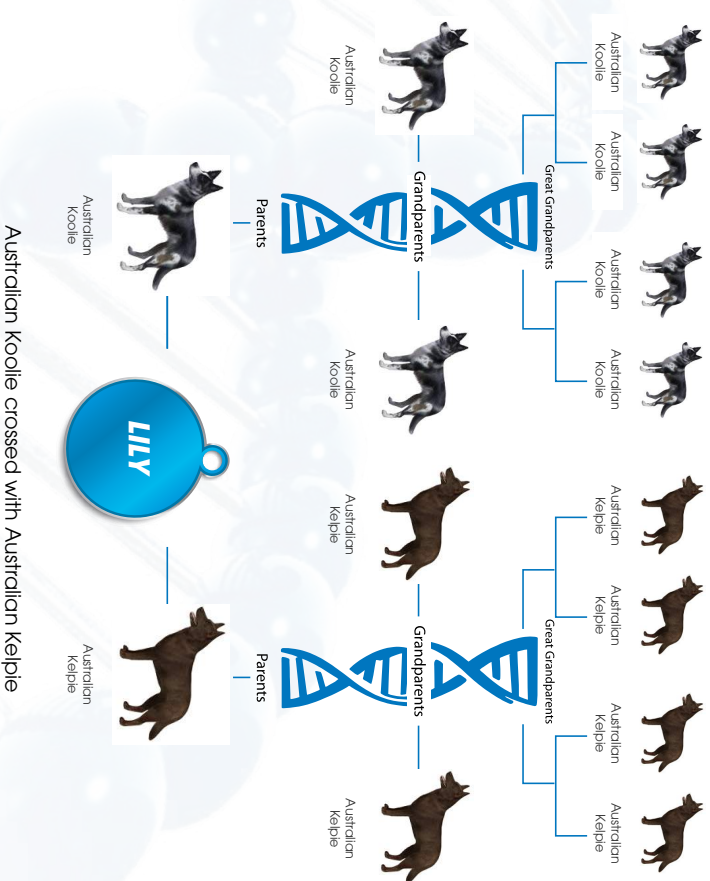
Statement of Authenticity

This certifies the authenticity of Lily's canine genetic background as determined following careful analysis of more than 300 genetic markers using the ADVANCE® Mixed Breed Identification DNA Test. The purebred dog breed signature matches included in this analysis are those that were detected in the last three generations of Lily's ancestry using the proprietary breed detection algorithm.



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Australian Koolie crossed with Australian Kelpie