

## Coat Color and Trait Certificate

<b>Call Name:</b>	Lance	<b>Laboratory #:</b>	132118
<b>Registered Name:</b>	-	<b>Registration #:</b>	-
<b>Breed:</b>	French Bulldog	<b>Certificate Date:</b>	May 22, 2019
<b>Sex:</b>	Male		
<b>DOB:</b>	Jan. 2016		

**This canine's DNA showed the following genotype(s):**

Coat Color/Trait Test	Gene	Genotype	Interpretation
A Locus (Agouti)	ASIP	A <sup>Y</sup> /A <sup>Y</sup>	Sable/fawn
E <sup>m</sup> Locus (Melanistic Mask)	MC1R	N/N	No melanistic mask
K Locus (Dominant Black)	CBD103	k <sup>Y</sup> /k <sup>Y</sup>	Agouti expression allowed
S Locus (White Spotting, Parti, or Piebald)	MITF	S/s <sup>P</sup>	Limited white spotting, flash, parti, or piebald (carrier)
E locus		e/e <sup>2</sup>	
d locus		d/d	dilute
		b/b	chocolate

**Interpretation:**

This dog carries two copies of **A<sup>Y</sup>** which results in a sable/fawn coat color. However, this dog's coat color is also dependent on the E, K, and B genes. The sable/fawn coat color is only expressed if the dog is also E/E or E/e at the E locus and k<sup>Y</sup>/k<sup>Y</sup> at the K locus which allows for agouti gene expression. This dog will pass on **A<sup>Y</sup>** to 100% of its offspring.

This dog carries two copies of **N** which does not result in a melanistic mask on the muzzle of the dog. This dog will pass on **N** to 100% of its offspring.

This dog carries two copies of **k<sup>Y</sup>** which allows for the expression of the agouti gene (A locus) which can result in a variety of coat colors including sable/fawn, tricolor, tan points, black or brown. However, this dog's coat color is dependent on its genotypes at the E, A and B genes. This dog will pass on **k<sup>Y</sup>** to 100% of its offspring.

This dog carries one copy of **S** and one copy of **s<sup>P</sup>** which results in limited white spotting, flash, parti, or piebald coat color due to the co-dominance of **S** and **s<sup>P</sup>**. This dog will pass on one copy of **S** to 50% of its offspring and one copy of **s<sup>P</sup>** to 50% of its offspring.

Paw Print Genetics<sup>®</sup> has genetic counseling available to you at no additional charge to answer any questions about these test results, their implications and potential outcomes in breeding this dog.



AMERICAN KENNEL CLUB®

September 12, 2018

HARVEY MILLER  
129 N CR 200 E  
ARCOLA IL 61910

Letter of DNA Analysis

Breed: **French Bulldog**  
Sex: **Male**  
Date of Birth: **04-JAN-16**  
ID #: **900115000082897**  
Date of Analysis: **11-SEP-18**  
AKC #: **NP41814504**  
AKC Name: **5 Stars Lilac Lance**  
Owner(s): **Harvey Miller**

DNA Profile #: **V861675**

The following genotype uniquely represents the Neogen Corporation genetic identity of the dog named herein:

Neogen #: **861675**

C	D	D	F	B	B	B	Z	C	D	H	Z	C	E	B	B	D	G	A	C	F	G	C	E	C	C	X	Y
PEZ 1		PEZ 3		PEZ 5		PEZ 6		PEZ 8		PEZ 12		PEZ 20		UCB 2010		UCB 2054		UCB 2079		PEZ 16		PEZ 17		PEZ 21		GEN	

Mark Dunn, AVP, Registration Development  
American Kennel Club

Stewart Bauck, General Manager GeneSeek  
Neogen Corporation



DNA Certificate Order Form



DR1AA

AKC Name: **5 Stars Lilac Lance**  
AKC #: **NP41814504** DNA Profile #: **V861675**  
Owner(s): **Harvey Miller**

Number of DNA certificates \_\_\_\_\_ @ \$10 each = \$ \_\_\_\_\_ total amount included

Mail order form to

Check or money order  MasterCard  Visa  AmEx

AKC DNA Operations  
PO Box 900065  
Raleigh NC 27675-9065

Account Number: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

Name on Card: \_\_\_\_\_