


EXERCISE INDUCED COLLAPSE

<p>Client Name: SHARRON BROWN Kennel Name: Client Address: R512 PELINDABA RD LANSERIA JHB Client Tel No.: 082 830 7291</p>	<p>REPORT NO.: ZO2020/842/0518/01</p> 
<p>Canine Name: CONKASHA ZEPELIN Breed: LABRADOR Microchip No.: 933 071 000 064 021 Registration No.: ZA 010 273 B19 Genetic Test: EXERCISE INDUCED COLLAPSE Result: CLEAR</p>	

EXERCISE INDUCED COLLAPSE (EIC)

Exercise induced collapse (EIC) is the intolerance of strenuous exercise; characterized by a wobbly gait, muscle weakness, and the loss of hind limb control. EIC is most common in the Labrador Retriever, Chesapeake Bay Retriever, Curly-Coated Retriever, German Wirehaired Pointer, Spaniels and Pembroke Welsh Corgi.

This test detects the substitution of a GTP for a TTP at c.767 G>T in the DNM1 gene (Patterson et al, 2008). This is an autosomal recessive condition where two copies of the mutation are required for an individual to be affected.

Patterson et al 2008. A canine DNM1 mutation is highly associated with the syndrome of Exercise Induced Collapse. Nature Genetics, Vol 40 (10), pp 1235 – 1239.

SAMPLE TYPE: FTA CARD
 EXTRACTION METHOD: FTA CARD PURIFICATION
 TEST TYPE: SANGER SEQUENCE DETECTION

BREEDING IMPLICATIONS

		MATERNAL CANDIDATE							
		CLEAR		CARRIER		AFFECTED			
		G	G	G	T	T	T		
PATERMAL CANDIDATE	CLEAR	G	G	GG	GG	GG	GT	GT	GT
	CARRIER	G	T	GG	GT	GT	TT	GT	TT
	AFFECTED	T	T	50% CLEAR 50% CARRIER	50% CARRIER 50% CARRIER 25% AFFECTED	25% CLEAR 50% CARRIER 25% AFFECTED	50% CARRIER 50% AFFECTED	50% CARRIER 50% AFFECTED	50% CARRIER 50% AFFECTED
				ALL CLEAR	50% CLEAR 50% CARRIER	50% CLEAR 50% CARRIER 25% AFFECTED	50% CARRIER 50% AFFECTED	ALL CARRIER	ALL AFFECTED

Disclaimer: This report does not disregard the existence of any unknown or rare variant of DNM1 gene that may cause EIC.



It is the sender's responsibility to ensure the correctness of the information accompanying the samples. In no event shall Inqaba Biotechnical Industries (Pty) Ltd or its divisions be held liable for indirect, substantial or secondary damages of any kind. Results are usually made available within 7-14 days of receipt of samples. Please note that results are only released subject to payment.