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**Report**

No.: 2306-N-07521  
Date of arrival: 30-06-2023  
Date of report: 11-07-2023

Patient identification: Dog female \* 05.04.23  
Schotse Herder Langhaar  
Owner / Animal-ID: Rikken, H.  
Type of sample: EDTA  
Date sample was taken: 29-06-2023

Parameter	Value	Reference value
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Name:	<b>Houbensloch Castle Siubhan Laggan</b>	
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Stud book no.:	<b>3303281</b>	
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Chip no.:	<b>528140000893111</b>	
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Tattoo no.:	--	
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MDR1 gene variant - PCR

Result: Genotype N/N (+/+)

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for MDR in the ABCB1-gene.

Trait of inheritance: autosomal-recessive

Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: Australian Shepherd, Border Collie, Elo, German Shepherd, Longhaired Whippet, McNab, Old English Sheepdog, Rough/Smooth Collie, Shetland Sheepdog, Silken Windhound, Waller, White Shepherd

Please note: in individual cases, heterozygous dogs can show clinical signs!

The DNA-test is run according to the publication of Mealey et al. (2001) "Ivermectin sensitivity in collies is associated with a deletion mutation of the mdr1 gene." and detects the mutation MDR1 nt230 (del14).