

Simunkova, Petra - Dog Rainbow Ray (Final report 27.04.15 13:00:34)

Veterinarni klinika Hanychov  
MVDr. Ivo Greger  
Liberel 8  
46008 Jestedska 600/50

Owner	Simunkova, Petra	Order ID	70009064
Animal	Dog Rainbow Ray	Laboratory No.	GE304624/10.04.2015
Material	EDTA blood, swab, swab		

Clinical information:

Dog, Rainbow Ray Sheltie 203 096 100 136 164 no information

Test	Result	Sign	Reference value	Unit	Remark
<b>Detection of the nt230(del4) MDR1 mutation (Ivermectin hypersensitivity) (real-time PCR)</b>					1),2)
Mutation	none				
Genotype	+/+				
<b>Conclusion:</b>					3)

No detection of the MDR1 mutation nt230 (del4). According to current scientific knowledge a functional MDR1 transport system exists. No specific precaution is necessary regarding the use of drugs. However adverse drug reactions for other reasons can not be ruled out.

Note:

1)

Sample forwarded to external partner lab

2)

The certificate will be sent separately by mail.

3)

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\*\*\* Final report \*\*\* validated by Dr. rer. nat. Balzer (graduate chemist)  
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Simunkova, Petra - Dog Rainbow Ray (Final report 19.05.15 18:16:36)

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46008 Jestedska 600/50

Owner	Simunkova, Petra	Order ID	70009063
Animal	Dog Rainbow Ray	Laboratory No.	GE304623/10.04.2015
Material	EDTA blood, swab, swab		

Clinical information:

Dog, Rainbow Ray Sheltie 203 096 100 136 164 no information

Test	Result	Sign	Reference value	Unit	Remark
<b>Molecular analysis of Collie Eye Anomaly (CEA)</b>					1),2)
Mutation	none				
Genotype	N/N				
<b>Conclusion:</b>					3)

The tested dog is homozygous for the intact gene. It is not carrying the mutation which is discussed causing the Collie Eye Anomaly (CEA/CH).  
The tested dog will only pass the intact gene to its offspring.

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for the genetic advantage

### Test Report

- Simunkova  
Zaskali P7  
Hodkovice, CZ-46342  
Czech Republic

Optigen Accession #: 15-3687  
VHL#: 89706  
Report issued for: VHL ID\_H89706

#### OptiGen Test Certificate

Optigen Accession #: 15-3687

Test Completed: 05/08/2015  
Report Issued: 05/08/2015

Test Performed: CEA/CH test

Result: Normal  
Sample Type: DNA - Blood

Registered Name: Rainbow Ray

Reg#: 203 096 100 136 164

Breed: Shetland Sheepdog

ID#: N/A

Sex: Female

Date of Birth: April 03, 2013

Owner(s):

- Simunkova



*Susan Teasdale*  
OptiGen Authorized Signature

[www.optigen.com](http://www.optigen.com)

**Test Results:** Genotype of your dog is **NORMAL/CLEAR**.

**Risk for developing Collie Eye Anomaly/Choroidal Hypoplasia (CEA/CH):** This dog will never develop CEA/CH.

**Significance for breeding:** This dog can be bred to any mate and will produce no pups affected with CEA/CH.

This interpretation is based on the test result of the DNA test for the specific mutation identified as causing CEA/CH in Shetland Sheepdogs as of the date on this report.

For further information, please consult the OptiGen website at [www.optigen.com](http://www.optigen.com). Note: The use of this test is patent protected and licensed to OptiGen. See [http://www.optigen.com/opt9\\_patent.html](http://www.optigen.com/opt9_patent.html) for details.

**International DNA Based Genetic Database:** To register this result with OFA, make a copy, sign below, mail WITH FEE, to OFA, 2300 E. Nifong Blvd, Columbia, MO 65201-3856 or FAX to 573-875-5073. [www.ofa.org](http://www.ofa.org)  
I hereby certify that the sample submitted was of the animal described on this application. I authorize the OFA to release all information on the test results thus placing the results in the public domain and I hereby release OFA from any and all liability associated with the release of test information.

Signature of owner or authorized representative: \_\_\_\_\_

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