Subject: MDR-1 GENOTYPE RESULTS

From: "Johnson, Judy" <vepl.judy@vetmed.wsu.edu>

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To: "sydney@rio.com" <sydney@rio.com>



MDR1* GENOTYPING RESULTS

1/8/2010

MDR1- 16082 Reference Number-N/A

Sydney Taylor Springfield, OR

MDR1 TEST RESULTS FOR:

Dog Name: Surefire Copen Hagen of Parsons

Dog Breed: German Shepherd-White

Test Result: NORMAL/NORMAL

Explanation of test results:

Normal/Normal- These dogs do not carry the mutation, and will not pass on the mutation to their offspring. These dogs would not be expected to experience unexpected adverse drug reactions to normal doses of ivermectin, loperamide (Imodium®), and some anticancer drugs.

Mutant/Mutant- These dogs carry the mutation and can not pass on a normal gene to their offspring. These dogs would be expected to experience toxicity after normal doses of loperamide (Imodium®), some anticancer drugs, and high doses of ivermectin (greater than 50 micrograms per kilogram).

Mutant/Normal- These dogs carry the mutation and may pass on the mutant gene to their offspring. These dogs

may experience toxicity after normal doses of loperamide (Imodium®), some anticancer drugs, and high doses of ivermectin (greater than 50 micrograms per kilogram).

A current list of problem drugs for dogs with the MDR1 mutation may be found at this web address: http://www.vetmed.wsu.edu/VCPL

Jonathan Minch

Jonathan Minch

Veterinary Clinical Pharmacology Laboratory Manager

* PCR for this service is performed pursuant to an agreement with Roche Molecular Systems, Inc. US Patent Number US 6,790.621 B2. Foreign patents pending for MDR1 testing.

PO Box 609, Pullman, WA 99163-0609

509-335-3745 • FAX: 509-335-3745 • vcpl@vetmed.wsu.edu • www.vetmed.wsu.edu/VCPL

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