



## MDR1 GENOTYPING RESULTS

5/17/2013 9:48:24 AM

MDR1 - 33867

Alma Animal Hospital

Dan Rhodes

Plano, TX

Submission            Blood

Type:

Dog Name:            DR Prince

Dog Breed:            Collie

**Test Result:**

<b>Mutant/ Normal</b>
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### 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>

**Neal Burke**

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