

Canine Test Results

: 31-May-2018

| Dog Name | Breed | Slocus | CEA | DM | MDR1 | vWD3 |
|---------------------------------|-------------------|--------|-----|-----|------|------|
| Foula's Mystery of Life (Karlo) | Shetland Sheepdog | N/S | n/n | n/n | n/n | n/n |

Result Guide:

Slocus

| | |
|------------|--|
| N/N | Negative: Dog is negative for the spotting or parti-color gene. |
| S/S | Dog has two copies of the spotting or parti-color gene, and will always pass on one copy to all offspring. |
| N/S | Dog carries one copy of the spotting or parti-color gene, and can pass it on to any offspring. |

CEA

| | |
|----------------|---|
| n/n | Clear: Dog tested negative for the Collie Eye Anomaly mutation. |
| CEA/CEA | Affected: Dog carries two copies of the Collie Eye Anomaly mutation, and will be affected by the disorder. The dog will always pass on a copy of the CEA mutation to any offspring. |
| n/CEA | Carrier: Dog carries one copy of the Collie Eye Anomaly mutation, and could pass the mutation on to any offspring. |

DM

| | |
|--------------|---|
| n/n | Clear: Dog is negative for the Degenerative Myelopathy mutation. |
| DM/DM | At Risk: Dog has a significantly higher risk of developing DM, and will always pass on a copy of the mutation to its offspring. |
| n/DM | Carrier: Dog carries one copy of the mutation associated with Degenerative Myelopathy, and could pass on the mutation to any offspring. |

vWD3

| | |
|------------------|---|
| n/n | Clear: Dog tested negative for the von Willebrands type 3 mutation. |
| vWD3/vWD3 | Affected: Dog carries two copies of the von Willebrands type 3 mutation, and will be affected by the disorder. The dog will always pass on a copy of the mutation to any offspring. |
| n/vWD3 | Carrier: Dog carries one copy of the von Willebrands type 3 mutation, and could pass the mutation on to any offspring. |

MDR1

| | | |
|---------|---------------|---|
| MDR/MDR | Af- fected | The dog carries two copies of the mutant gene and is homozygous for the MDR1 mutation. The dog will react to Ivermectin, or other listed drugs, and will always pass a copy of the mutated gene to its offspring. |
| MDR/n | Carrier | Both the normal and mutant copies of the gene detected. Dog is a carrier for the MDR1 mutation, and can pass on a copy of the defective gene to its offspring 50% Of the time. |
| n/n | Clear | Dog tested negative for the MDR gene mutation, and will not pass on the defective gene to its offspring. |

