GENETIC DISEASE PANEL TEST RESULTS

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OWNER OF RECORD:

DR. MARVIN M. BOWMAN
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CUSTOMER NUMBER:
PRINT DATE: 12/18/2018

Horse Name: AFFLUENT **Number #:** # 680768

Foaled: 3/27/2016 **Sex:** S

Sire's Name: THE REAL SECRET **Registration #:** # 0663457
Dam's Name: ENLIGHTEN ME MAXINE **Registration #:** AQ 5187769

Case #: AP2016038892 **Result Date:** 12/18/2018 **Lab Rec:** 12/05/2018

GBED	N/N	Normal-horse does not have the GBED gene
HERDA	N/N	Normal-horse does not have the HERDA gene
HYPP	H/N	Heterozygous-(one normal and one HYPP gene)
MH	N/N	Normal-horse does not have the MH gene
PSSM1	N/N	Normal-horse does not have the PSSM1 gene

GBED - Glycogen Branching Enzyme Deficiency. Fatal disease of newborn foals caused by defect in glycogen storage. Affects heart and skeletal muscles and brain. Inherited as recessive disease.

HERDA - Hereditary Equine Regional Dermal Asthenia. Skin disease characterized by hyperextensible skin, scarring, and severe lesions along the back of affected horses. Typical onset is around 2 years of age. Inherited as a recessive disease.

HYPP - Hyperkalemic Periodic Paralysis. Muscle disease caused by defect in sodium channel gene that causes involuntary muscle contraction and increased level of potassium in blood. Inherited as dominant disease. Two copies of defective gene produce more severe signs than one copy.

MH - Malignant Hyperthermia. Rare but life-threatening skeletal muscle disease triggered by exposure to volatile anesthetics (halothane), depolarizing muscle relaxants (succinylcholine), and stress. Presumed inheritance as dominant disease.

PSSM1 - Polysaccharide Storage Myopathy Type 1. Muscle disease characterized by accumulation of abnormal complex sugars in skeletal muscles. Signs include muscle pain, stiffness, skin twitching, sweating, weakness and reluctance to move. Inherited as a dominant disease.

- The results relate only to the sample submitted and/or the sub-sample tested
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