UCDAVIS VETERINARY MEDICINE
Veterinary Genetics Laboratory

G6-SULFATASE DEFICIENCY GENETIC TEST REPORT

Provided Information:	*Case:* **MDG1118**
Name: **GOAT TRAILS SWEET IRIS BLUE**	*Date Received:* 17-Apr-2023
Registration: **MN14797 TW3 N19**	*Report Issue Date:* 24-Apr-2023
	Report ID: 2982-6933-5503-7008
	Verify report at www.vgl.ucdavis.edu/verify
DOB: **03/25/2021** *Sex:* **Female** *Breed:* **Nubian, Miniature**	

G6-Sulfatase Deficiency Result

N/N

Interpretation

N/N	Normal - Goat does not have G6S mutation.
N/G	Carrier - Goat has one copy of G6S mutation, but is unaffected.
G/G	Affected - Goat has two copies of G6S mutation.

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ALPHA-S1 CASEIN GENETIC TEST REPORT

Provided Information:	*Case:* **MDG1118**
Name: **GOAT TRAILS SWEET IRIS BLUE**	*Date Received:* 17-Apr-2023
Registration: **MN14797 TW3 N19**	*Report Issue Date:* 24-Apr-2023
	Report ID: 2559-9307-4750-6004
	Verify report at www.vgl.ucdavis.edu/verify
DOB: **03/25/2021** *Sex:* **Female** *Breed:* **Nubian, Miniature**	

ALPHA-s1 CASEIN RESULT

A/B

Interpretation

A and **B** variants, are associated with a high content of alpha-s1 casein in milk. *
E, **F** and **N** variants, are associated with a lower content of alpha-s1 casein in milk.
O1 represents a non-functional variant ("null") that is associated with lack of alpha-s1 casein production.
Any combination of "high" variants will produce high amounts of alpha-s1 casein.
Any combination of "high" and "low" variants, or "high" and "null" variants, will produce intermediate amounts of alpha-s1 casein.
Any combination of "low" variants, with or without "null" will produce low amounts of alpha-s1 casein. Goats with two copies of the O1 "null" variant will not produce alpha-s1 casein protein.

* This test is not designed to detect subvariants of **A** and **B**.