

Batch Detail Report

Created : 2022-02-21

Batch : 7858U
Owner :Arthur de Villiers
Farm :Arthur De Villiers and Son
Account : ADV01
Invoice To : Owner

SAMPLE	ANIMAL	SPECIES	BREED	DAM	SIRE	TEST	Tissue Type	RESULT	INVOICE
7858U089	GZV18-0164 (F,1)	CATTLE	BONSMARA (1)			SNP50_C	Hair	IG50 : IGENITY 50K	

Report Date : 27-Feb-2026 09:54

Page : 1

Unistel report these results on the premise that the biological samples received are from the individuals nominated by the owner/ breeder/ requestee. This Certificate replaces all previously issued certificates.

Disclaimer: While every reasonable effort is made to prevent faulty results, Unistel Medical Laboratories do not accept any responsibility for any losses that may occur as a result of human or technical error. The results relate only to the samples tested. Should gross negligence be proven, the claim shall not exceed the value of the contract

Please note: some STR profiles used in parentage analysis may have been sourced from another laboratory. While every reasonable effort is made to prevent incorrect results, Unistel Medical Laboratories does not accept any responsibility for parentage mismatches due to incompatible marker scoring strategies between laboratories. Unistel Medical Laboratories participates in ISAG comparison testing and therefore incorporates international scoring standards in the generation of our STR profiles.

CHARNÉ ROSSOUW
DIVISION MANAGER



Unistel Medical Laboratories
Genetic Report
 BOVINESNP50-24 v3 BeadChip

Arthur de Villiers
 Arthur De Villiers and Son
 Bonsmara
GZV18-0164
7858U089

Animal Tested:

Sample type:

Hair

Description	Mutations	Status	Description	Mutations Tested	Status
Coat colouration	MC1R - e	E+/E+	Meat	Calpain 1 - 316	G/G - Normal breakdown
	MC1R - ED	E+/E+	Tenderness	Calpain 1 - 4751	C/T - Intermediate breakdown
	Dun Dexter Dilution (TYPR1)	+/+		Calpain 1 - 530	A/G - Intermediate breakdown
	Silver Dilution type 1	+/+		Calpastatin - 282	C/C - Does not inhibit Calpain
	Silver Dilution type 2	+/+		Calpastatin - 2870	G/G - Does not inhibit Calpain
Myostatin Status	Myostatin C313Y	Clear		Calpastatin - 2959	A/A - Does not inhibit Calpain
	Myostatin E226X	Clear			
	Myostatin E291X	Clear	Milk status	Beta Casein - 245	A2/A2
	Myostatin nt419	Clear		Beta Casein - 411	B/B
	Myostatin nt821	Clear		Kappa Casein - 352	A/A
	Myostatin Q204X	Clear		Kappa Casein - 467	A/A
	Myostatin D182N	Clear		Kappa Casein - 470	A/A
	Myostatin F94L	Clear		Kappa Casein - 506	B/B
	Myostatin S105C	Clear		Kappa Casein - 526	A/A
POMPE Status	E13 mutation	Clear			
	E18 mutation	Clear	Milk quality	Growth Hormone F279Y	Increased milk, casein & lactose yield; decreased protein & fat yield
	E7 mutation	Clear		Growth Hormone 2141	Normal milk protein & fat yield
				Growth Hormone 2291	Normal milk fat yield, fat & protein %
Heat Tolerance	SLICK	No added resistance		ABCG2 - protein yield milk	Normal fat, protein & milk yield. Normal fat & protein %.
Eye Disorders	Pinkeye resistance	Reduced risk 16-26%		AcylCoA - milk fat percentage	Increased milk and protein yield; decreased fat yield, fat % & protein %
Bone Disorder	Osteopetrosis	Clear		Trimethylaminuria excess in milk	Clear
				Yellow milk fat	Normal yellow fat
			Hornedness	Polled (Celtic and Friesian)	Horned

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