



Unistel Medical Laboratories
Genetic Report
BOVINESNP50-24 v3 BeadChip

JH (Boetie) Hattingh
Hexagorian 1059 Pty Ltd
Senepol
KD21-0106
261457U002

Animal Tested:

Sample type:

Hair

Description	Mutations	Status	Description	Mutations Tested	Status
Coat colouration	MC1R - e	Insufficient data	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	G/G - Normal breakdown
	Silver Dilution type 1	+/+		Calpastatin - 282	C/C - Does not inhibit Calpain
	Silver Dilution type 2	+/+		Calpastatin - 2870	A/G - Intermediate inhibition of Calpain
Myostatin Status	Myostatin C313Y	Clear		Calpastatin - 2959	A/G - Intermediate inhibition of 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	B/B
	Myostatin F94L	Clear		Kappa Casein - 506	A/A
	Myostatin S105C	Clear		Kappa Casein - 526	A/A
POMPE Status	E13 mutation	Clear			
	E18 mutation	Clear	Milk quality	Growth Hormone F279Y	Intermediate milk, casein & lactose yield, slightly reduced 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	Heat tolerant - heterozygous		ABCG2 - protein yield milk	Normal fat, protein & milk yield. Normal fat & protein %.
Eye Disorders	Pinkeye resistance	Reduced risk 8-13%		AcylCoA - milk fat percentage	Normal fat, protein & milk yield; normal fat & protein %
Bone Disorder	Osteopetrosis	Clear		Trimethylaminuria excess in milk	Clear
				Yellow milk fat	Normal yellow fat
			Hornedness	Polled (Celtic and Friesian)	Homozygous Polled

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