

Screening Test for Myophosphorylase Deficiency in Charolais Cattle

The EPAGSC at Massey University has researched the reliability of a DNA-based test to detect affected and carrier cattle. This test has proven to be robust and reliable provided reasonable DNA is obtained from submitted samples. Previously blood samples were required; however the use of tail switch hair is now acceptable for screening tests. The following method of collection should be used:

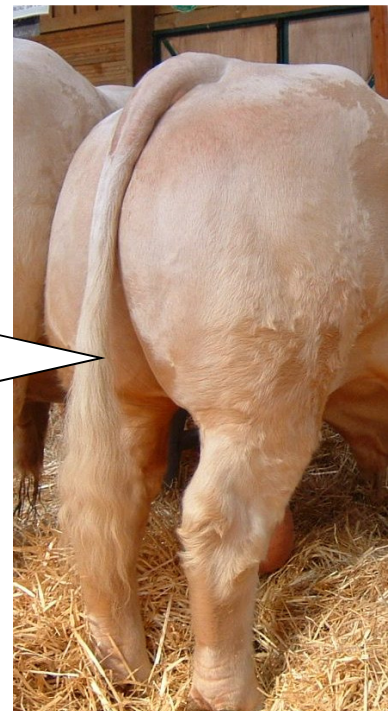
Collect long hairs from the brush or switch of the tail.

Select 10-15 clean and dry tail hairs, and pluck with a sharp downward pull.

Repeat 2-3 times or until you have a minimum of approximately 30 clean and dry hairs without any faecal contamination.

Your samples should clearly show the hair roots at the base from where they have been plucked from under the skin.

Place hair in a new plastic bag, label, complete form and courier promptly.



Frozen semen samples should be couriered in appropriate packaging to ensure their stability.

Send samples to:

Michelle Fremaux – Acting Director
Equine Parentage & Genetic Services Centre
Drysdale Drive
Massey University
Palmerston North
Phone: 06 350 5799 Extension 83472
Fax: 06 350 5621
Email: m.fremaux@massey.ac.nz

The cost of DNA sampling is \$35 including GST, with an additional surcharge of \$10 for frozen (semen) samples. You will be invoiced by the NZ Charolais Cattle Society Inc. Results are normally available within 5 working days from sample receipt.

NEW ZEALAND CHAROLAIS CATTLE SOCIETY (INC.)



Myophosphorylase Deficiency Testing Submission Form

Breeder Name / Sample Provider:	
Address:	Phone:
	Fax:
	Email:

Sample #	Animal Registration Details	Sex	Test Result		
			NN Normal	NP Carrier	PP Affected