

## **Understanding SNP Poll Test Results**

Neogen Australasia moved to SNP based DNA testing in September 2017. The move to SNP based testing means that we now have a far more accurate test for Poll in both taurine and indicine cattle.

Previously used Beef CRC based Poll tests would return a result and an accuracy (e.g. Homozygous Polled 98%). With SNP based Poll testing, the Poll gene can now be identified with a lot more accuracy and a description of the specific poll allele found is included as a subscript.

When reporting Poll test results from a SNP based test, the results will be reported as seen below:

Result	Interpretation	Interpretation Animal's Appearance			
РсРс		Predominately Polled (occasional scurs)			
PcPf	Homozygous Poll (PP)				
PfPf					
HPc	Hotorowania Doll (DH)	Polled or Scurred			
HPf	Heterozygous Poll (PH)				
НН	Horned (HH)	Horned			

Mating outcomes (statistically):

Pc and Pf are interchangeable for 'P' in the graphic below.

	Р	Р	PP x PP		Р	Р	PP x HH
Р	PP	PP	100% progeny will be PP	Н	PH	PH	100% progeny will be PH
Р	PP	PP	polled	Н	PH	PH	polled
	•						
	Р	Р	PP x PH		Р	н	PH x PH
Р	PP	PP	50% progeny will be PP	Р	PP	PH	50% progeny will be PH polled, 25% will be PP polled,
Н	PH	PH	polled, 50% will be PH polled	Н	PH	нн	25% will be HH horned
	Р	Н	PH x HH		Н	Н	нн х нн
Н	PH	нн	50% progeny will be PH	Н	нн	нн	100% progeny will be HH
Н	PH	нн	polled, 50% will be HH horned	Н	нн	нн	horned