

## **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	Animal's Appearance		
PcPc		Predominately Polled (occasional scurs)		
PcPf	Homozygous Poll (PP)			
PfPf	7			
HPc		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
Ρ	РР	PP	100% progeny will be PP	Н	PH	PH	100% progeny will be PH
Ρ	РР	PP	polled	н	PH	PH	polled
	Ρ	Р	PP x PH		Р	н	PH x PH
Р	РР	PP	50% progeny will be PP	Ρ	РР	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	HH x HH
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	ΗΗ	ΗН	horned