

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	Homozygous Poll (PP)	Predominately Polled (occasional scurs)
PcPf		
PfPf		
HPc	Heterozygous Poll (PH)	Polled or Scurred
HPf		
HH	Horned (HH)	Horned

Mating outcomes (statistically):

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

	P	P
P	PP	PP
P	PP	PP

PP x PP
 100% progeny will be PP
 polled

	P	P
H	PH	PH
H	PH	PH

PP x HH
 100% progeny will be PH
 polled

	P	P
P	PP	PP
H	PH	PH

PP x PH
 50% progeny will be PP
 polled, 50% will be PH
 polled

	P	H
P	PP	PH
H	PH	HH

PH x PH
 50% progeny will be PH
 polled, 25% will be PP
 polled, 25% will be HH
 horned

	P	H
H	PH	HH
H	PH	HH

PH x HH
 50% progeny will be PH
 polled, 50% will be HH
 horned

	H	H
H	HH	HH
H	HH	HH

HH x HH
 100% progeny will be HH
 horned