

DNA Decisions

The CSA is working to offer DNA testing requests to the online system. This means you as a member will be able to order, collect and ship samples from home. It also means you may not get a chance to talk to our friendly and professional staff about which tests you may need and options that are available. The following is a simple guideline that can help you make sure you order the right test for what you want to do. Standalone tests are available and in some cases represent a minimum requirement, or combinations of tests may be ordered. All walking sires, AI sires and ET Dams must have a 50K alone or in combination with another test. AI sires and ET donor dams are required to have verified parentage. 50K data is also needed for inclusion of the DNA information directly into the EPD calculated by IGS.

Online System DNA Tests

Standalone Tests	What I want to do	Required	Used In EPD
Basic SNP Panel (200 SNP)	For sorting parentage in multi-sire pastures	*** Sire sort progeny from multi sire breedings	No
GGP 50K	Test for Parentage and Include in Genomically Enhanced EPD	Minimum for Walking Sires, AI Sires and ET Dams. Can be used to Sire sort progeny from multi-sire breedings.	Yes
Coat Color Homo Black	Test for Homozygous Black		No
Coat Color Dilutor	Test for presence of dilutor gene		No
Horn/Poll	Test for homo polled		No
Combo Tests	What I want to do	Required	Used In EPD
50K, Horn/Poll COMB 1	Test parentage and homo polled and included in GE EPD	Meets minimum for Walking Sires, AI Sires and ET Dams. Can be used to sire sort progeny from multi-sire breedings	Yes
50K, Coat Color Black COMB 2	Test parentage and homo black and included in GE EPD		Yes
50K, Horn/Poll, Coat color Black COMB 3	Test parentage and homo polled and homo black and included in GE EPD		Yes
50K, Coat Color Dilutor COMB 4	Test parentage and for absence of dilutor gene and included in GE EPD		Yes
50K, Horn/Poll, Coat Color Dilutor COMB 5	Test parentage and homo polled and absence of dilutor gene and included in GE EPD		Yes
Horn/Poll, Coat Color COMB 6	Test for homo polled and homo black	COMB 6	No

*** All walking sires must have a minimum 50K test on file. If you wish for more information combos containing a 50K can also be used. ET calves require a minimum Basic SNP Parentage for registration.

More complex requests such as Genotype reconstructions, or freemartin or karyotype testing may require contacting the CSA office.

Once test(s) are ordered you will have the choice of printing a kit or performing the test on an animal that has DNA in the lab already. If you have not sent DNA in on the animal before then you will need to print a kit, collect a DNA sample and send it to the lab with the relevant information contained in the kit.