

## Get information about polledness and Beta-casein on the AI bulls you use

*Do you want polled cows or cows that produce A2A2 milk? If so, then you need to find the right AI-bulls! From May 2021 you can find the information on NAVs webpage for publication of breeding values of AI bulls - [NAV Bull search](#).*

NTM is the most important criteria when selecting the AI-bulls that gives you the best economic results. However, among the very best bulls some of them have the gene for polledness, which can be of great interest for breeders. The same is true when it comes to the different variants for beta-casein. This information on the bulls is now available on NAV Bull search.

### Polledness

There are polled animals in most cattle breeds, but the frequency varies largely. The polled gene is dominant. It means that an animal is polled if it inherits the polledness gene from one or both parents. On NAV Bull search, bulls that are double carrier will have the code POS, bulls that are single carrier have the code POC and bulls that don't carry the gene for polledness have the code POF.

### Beta-casein

The most frequent variants of Beta-casein are A1 and A2. In all Nordic Dairy breeds A2 is the most frequent variant, but there are differences between breeds. Some studies suggest that A1 may be harmful and that A2 is a safer choice. This is still a debate.

On NAV Bull search bulls that are double carrier of A2 gene is coded A2/A2, bulls that carrier both types is coded A1/A2 and bulls that are double carrier of the A1 gene is coded A1/A1.

It is important to note, that results for polledness and Beta-casein are derived from an ordinary genomic test. Results can occasionally be different from results when you order a specific test for these traits on Eurofins. If you want to be absolutely sure of the results you should order a specific lab test for polledness or Beta-casein.

### All you need

On NAV Bull search you can find information on polledness and Beta-casein, but also on all other sorts of exiting information about bulls and their genetic level for different traits. You can for instance find breeding values for the best dairy AI-bulls right now, but also all the bulls that has been used previously.

#### Facts on Beta-casein

Casein is the largest group of proteins in milk, making up about 80% of total protein content. There are several types of casein in milk. Beta-casein is the second most prevalent and exists in at least 13 different forms, where the two most common forms are A1 and A2. The difference between A1 and A2 is a mutation in a single base pair on the DNA strand. The mutation differentiating A1 and A2 is also present in some of the other forms. On the basis of this specific mutation, we have split the other forms into A1 and A2 families. Thus, the different variants are pooled on NAV Bull search.

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Name

VR VIMO VESTY

VR THIAGO

VR FUZZY P

VR UNG

VR FORTESS

VR FROERUP

Genetic traits 

Trait	Code	Result
BTA12	B12F	Free
BTA23	B23F	Free
PIRM	PIF	Free
SMA	SMF	Free
AH2	AH2F	Free
BH2	BH2F	Free
SPAST	SDF	Free

More information on Genetic traits