



ALPINE / SAANEN

PROOF RELEASE




2024



NEW ALPINE & SAANEN PROOF RUN SYNETICS : THE MOST RELIABLE GOAT GENETICS WORLDWIDE IS HERE !



**Capgènes, the world's most powerful goat breeding programme,
by breeders and for all breeders**

Capgènes is the only breeding organization and association of all goat breeders and all French goat breeds. It is also the only French goat semen production centre, the largest in the world. French goat genetics are available worldwide via **SYNETICS EXPORT, born January the 1st, 2023, from the merge of **EVOLUTION INTERNATIONAL**   and **MASTERRIND** **

Capgènes bases its breeding programme for the Alpine and Saanen breeds on its breeders: more than 6,000 farms and nearly one million dairy goats in France. The great diversity of breeding systems allows us to adapt our genetic offer to both grazing systems and very intensive conditions.

The 2024 goat export offer is composed of 222 bucks registered in the Alpine and Saanen herd books, genotyped and confirmed by their progeny (more than 30 daughters in at least 15 different farms) from 128 different sires, offering all goat breeders worldwide a vast choice according to their objectives and a great variability, unique in the world. All our goats are genetically and health tested throughout their lives, free from all official diseases recognized in accordance with the New European Health Regulations (NHR).

Our best goats are selected to be mothers of AI bucks; each year 1,500 controlled matings allow us to select 400 billy goats that will be genotyped as well as their dams, in order to disseminate the 100 best genomic bucks and then the 30 best on progeny. All our bucks are pure Alpine, Saanen or Boer and have a pedigree and a zootechnical certificate.

Performances of AI bucks' dams (Bucks 2023)



Breed	Saanen	Alpine
Lactation length	313	304
Milk (kg)	1338	1278
Protein %	3.39	3.52
Fat %	3.77	4.02





HOW TO READ AN AI BUCK'S BREEDING VALUES ?



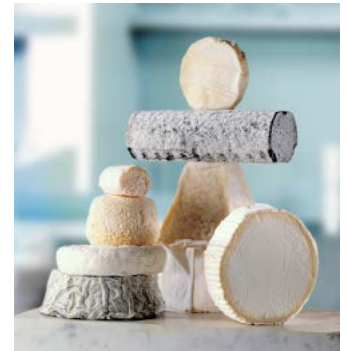
The breeding values are calculated in the Alpine and Saanen breeds by the national official organization GENEVAL thanks to a solid national system of identification, knowledge of ancestors, and official performance testing based on a very large number of individuals (more than 300,000 goats in official milk testing per year and 40,000 goats scored morphologically by the Capgènes technicians per year) and for more than 40 years.

- The indexes are expressed on a rolling breed basis; for 2024 these are females born between 2018 and 2021. The average index of these females is either 0 or 100.
- The indexation presents 6 elementary indexes and 2 synthetic indexes.
- The indexes are neither comparable between the two breeds nor comparable from one year to the next.

THE PRODUCTION

Here are the basic indexes; expressed in base 0

- ILAIT : milk quantity index
- IMP : protein index
- IMG : Fat index
- ITP : protein % index
- ITB: fat % index



The IPC is the synthetic index of caprine production.

here is how it is calculated :

$$\begin{array}{ll} \text{Alpin :} & \text{IPC} = \text{MP} + 0.4 \text{ TP} + 0.1 \text{ MG} + 0.2 \text{ TB} \\ \text{Saanen :} & \text{IPC} = \text{MP} + 0.4 \text{ TP} + 0.2 \text{ MG} + 0.1 \text{ TB} \end{array}$$

This index is expressed in base 100.

The IPC remains a strong element of the selection scheme because it reflects the milk production, both qualitative and quantitative.

SOMATIC CELLS COUNT

The somatic cell count index (ICELL.) has been released since January 2013 for AI males.

To be released, a male must have at least 20 daughters evaluated and a reliability over 0.50.

This index is expressed in base 100. Indexes above 100 correspond to males that improve this trait, i.e. that have daughters with lower than average cell counts.



THE MORPHOLOGY

The Caprine Morphological Index (IMC), created in 2006, aims to improve the morphological characteristics of the udder.

IMC = 1 Front udder attachment + 1 udder Profile + 1 udder floor position + 1 Teat Orientation + 1 Rear udder attachment

This index is expressed in base 100.



Fore udder attachment



Profile



Udder floor position



Teat orientation



Rear udder attachment

OTHER INFORMATION AVAILABLE FOR EACH BUCK

- **Alpha S1 casein:** effect on protein synthesis and cheese yield

C++ transmission of a strong allele for Alpha S1 casein to all offspring
 C+ transmission of a strong allele for Alpha S1 casein to half the progeny
 ∅ no strong allele or no casein information available

- **The bucks profile** according to the aim of the farm:



COMPLETE / COMPLET

Well balanced bucks with high milk production, components & keeping the udders healthy
 Boucs bien équilibrés pour produire du lait en quantité, riche en taux, sans détériorer la mamelle



MILK / LAIT

Selectively bred bucks for high volume milk production
 Une sélection de boucs pour une production laitière de volume



TYPE / MORPHOLOGIE

To improve the udder quality of your herd
 Pour améliorer la qualité morphologique des mamelles de votre troupeau



COMPONENTS / TAUX

To produce milk rich in protein and fat
 Pour un lait riche en protéine et matière grasse

- **The price range :** ★★★★★ according to genetic level, with 4 stars being the highest genetic level bucks.



A ROBUST AND UNRIVALLED GENOMIC EVALUATION

Caprine genomic selection in France is based on over 10 million lactations !

Genomics is taking its place at all stages of selection, starting with the choice of young bucks when they enter the centre. This early estimation of the genetic potential of AI males gradually confirms good prospects for the future of goat selection:

- Better accuracy of indexes,
- Faster genetic progress,
- Earlier integration of new generations in programmed mating plans
- Possibility of selection on new traits (fertility) and on genes of interest (scrapie resistance, milk composition...)
- More variability and diversity of profiles

All the bucks tested on progeny have been genotyped, i.e. more than 1,000 Saanen bucks and more than 1,500 Alpine bucks.

These 6 years of hindsight on the selection and distribution of these young genomic bucks have only confirmed this potential, and thus the robustness of the genomic selection scheme. Recently, the genotyping of buck dams has allowed us to further improve the accuracy of these indexes, reaching average reliabilities of 0.70 for our young bucks. Genomic evaluation has been used in our programme since 2016.

This year's export offer includes 8 top young genomic bucks in Alpine and 8 in Saanen that have their very first daughters in lactation in France; these are the "S" series born in 2021.

SAVE THE DATES !

AQUITANIMA GOAT TOUR 2024

The goat tour (3 days of visits to discover French goat genetics) will take place from 14 to 17 May 2024 in Poitiers and Niort area, FRANCE.

GOAT AI TRAINING 2024

From 9 to 13 September 2024 - 5 days of theory and practice
Poitiers and Saumur area, FRANCE. Information : Sandrine.bourillon@synetics.world

www.synetics.world