

2021

STALLIONS CATALOGUE



acruga
Raza Rubia Gallega



XUNTA DE GALICIA
CONSELLERÍA DO MEDIO RURAL



Unión Europea
Fondo Europeo Agrícola
de Desarrollo Rural



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Y ALIMENTACIÓN



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Programa Nacional
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2007-2013



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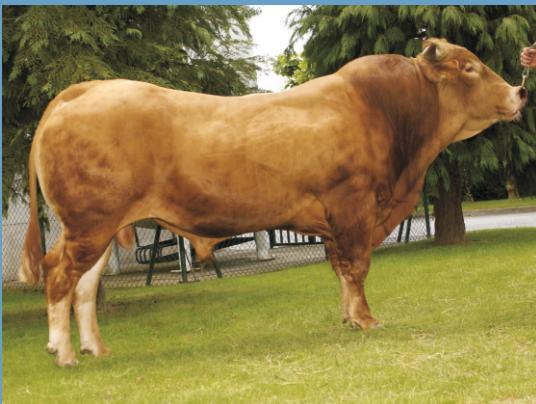
XENÉTICA
FONTAO



FARRUCO AG



MANTEIGO AG



PALMEIRO AG



PASTOR IV AG



PELEGRIÑ II AG



PLATERO AG



QUIJANO AG



TEIXO VI AG



RAZA RUBIA GALLEGA STALLIONS CATALOGUE

2021

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INTRODUCTION

These pages present the artificial insemination bulls of the Rubia Gallega breed, result of a long process of breeding and selection, which follows, at least, the following phases:

- 1) **Control of productive performance**, both in live animal (farm) and carcass (slaughterhouse), according to protocols established by ACRUGA.
- 2) **Genetic evaluation of the candidates for selection**, males, and females for the different controlled traits, by the Group of quantitative genetics and animal improvement of the University of Zaragoza. The different selection criteria are constructed.
- 3) **Selection by ACRUGA** of the candidates for future artificial insemination bulls.
- 4) **Individual control** of these animals in the Adai Testing Centre.
- 5) **Extraction and evaluation** of the semen in the *Galician Animal Selection and Reproduction Centre, Xenética Fontao S.A.*

This catalogue shows the relevant information on artificial insemination bulls, including their estimated genetic value for the different traits.

The characteristics under genetic evaluation are the following:

- a. Birth weight
- b. Maternal effect
- c. Weaning weight
- d. Cold carcass weight
- e. Carcass conformation
- f. Carcass fat cover

Specifically, for this catalogue, the genetic values of the animals were used from the data of the yield control for the year 2020. A total of 464,373 pedigrees, 456,284 live weights and 92,330 carcass data were used.

With this information, the different animals have been genetically evaluated. For this, the BLUP methodology has been used, a single-character animal model solved by Gibbs sampling, for each of the 6 traits recorded by the yield control. The inclusion of different environmental effects in the different models guarantees the quality of the genetic merit estimators as selection criteria. Finally, these estimators are combined to generate two composite indices, which are formally the final selection criteria: ICC for meat production improvement and ICV for life, for the maintenance of breed purity.

With the information provided, this catalogue of stallions should be an indispensable tool for those interested in the animal improvement of this breed, especially technicians and breeders who want to have reliably selected genetic material to improve the Rubia Gallega herd, to increase its productivity, both in quantity and quality, as well as to maximise the profitability of the herds dedicated to the exploitation of this autochthonous zootechnical resource.

This stallion catalogue has been compiled as a user-friendly tool with the following information:

- **Identification data of the animal** (name, identification number, artificial insemination code, type of registration in the Stud Book, date of birth, breeder, and genotype for the trait "culón").

- **Genetic evaluation** for the different controlled traits and composite indexes.

- **Productive data of the offspring**: number of controlled offspring and average values according to sex.

- **Productive data of the individual control** animal on farm and on station (birth weight, weaning, at 12 months, average daily gain, and conversion index in testing), morphological or linear qualification and zoometric measurements at 14 months.

- **Calving ease presented** in purebred breeding and pre-weaning gain.

- **Recommendations for use** for each animal tested according to the data evaluated.

It has been divided into 2 sections:

- **Live stallions** accurately evaluated.

- **Live stallions on trial** with provisional genetic evaluation.

ACRUGA has a stock of dead stallion semen doses available for consultation.

Comparative stallion tables are also provided for the following productive parameters: calving ease (tested stallions), morphological qualification, conversion rate and average daily gain, average weight of offspring at birth and weaning and composite indexes for life and for meat, to make it easier to choose bulls according to the characteristics suitable for the purpose.

The Association will continue to work on all those aspects that may be of interest in order to add information about the bulls in future catalogues.

Finally, our thanks: To the herds that are part of ACRUGA, who collaborate and transfer the data of their animals to the Stud Book and make the progress of the Rubia Gallega breed possible. To the different Public Administrations that have placed their trust in ACRUGA for the management of the Stud Book and the Rubia Gallega Breed Improvement Programme and to establish agreements with the aim of genetically improving the breed. To the Galician Animal Selection and Reproduction Centre, Xenética Fontao S.A., where the Rubia Gallega stallions are kept and where the genotyping and filiation and myostatin (trait "culón") tests of the animals are carried out. The National Animal Germplasm Bank where genetic material of the Rubia Gallega breed is saved and kept. To the Group of Quantitative Genetics and Animal Improvement of the University of Zaragoza, where the genetic evaluations of the animals are carried out.

GLOSSARY

Bull Data

Identification Key: Set of letters and numbers that identifies the animal in the Stud Book of the breed.

Registration: Record in the Stud Book in which the animal is registered.

Health eartag: Official individual identification of the animal.

AI Code: Code assigned to each bull at the insemination centre.

Performance monitoring

Birth weight: weight of the bull taken on the breeder's farm, in the first hours of life.

Weaning weight: weight of the animal taken on the breeder's farm, between 6 and 8 months of age and normalised to 210 days.

GMD210: Average daily gain at 210 days of life of the animal.

Weight at 12 months: weight of the steer at one year of age at the testing centre.

GMDVI: Average daily gain during the individual control at the testing centre. Ratio between the difference between the weight at the beginning and the end of the test period and the duration of the test period.

IC: Feed Conversion Index during individual testing. Ratio between the concentrated feed consumed and the weight gain in this phase.

CM or CL: Morphological or linear qualification at 14 months (according to prototype breed scale).

Genetic Evaluations

(EBV = Estimator of the genetic value for a trait or genetic index)

Genetic Index: genetic evaluation of the traits with the greatest economic impact involved in the objective of improving the Rubia Gallega breed: birth weight (EBV_NCTO), weaning weight (EBV_210), maternal effect (EBV_MAT), carcass weight (EBV_PESO), carcass conformation (EBV_CONF) and carcass fatness (EBV_ENGR). It determines the genetic merit of the breeders transmissible to the offspring, for each of the traits.

Prec. %: percentage of accuracy. Correlation between the true genetic value, which is unknown, and its estimator (EBV). It determines the degree of invariance of the genetic value with the addition of new data.

ICV: composite selection index for life, constructed by the EBV_NCTO, EBV_CONF and EBV_ENGR, with weights of 20% and by the EBV_MAT weighted at 40%.

ICC: composite selection index for meat, constructed by EBV_NCTO, EBV_210 and EBV_PESO, with weights of 20% and by EBV_CONF weighted at 40%.

Both EBV and composite indices have been normalised to a mean equal to 100 and a standard deviation equal to 10 units for each characteristic.

Calving ease

The interest of this trait lies in its relation to problem calving, with important costs for the farm and with a great negative impact on the viability of the dam and calf. It is a complex trait whose heritability is usually low.

Calving ease is assessed on a scale of 1 to 3:

1. easy calving: the cow calves easily, without any problems, completely alone or in the presence of the handler with slight assistance.

2. Strong traction: dystocic, complicated or difficult calving requiring the presence of more than one attendant and/or the use of ropes or mechanical devices to remove the foetus.

3. Caesarean section: the need for surgical intervention to remove the foetus.

Slaughter

Average age at slaughter: average age at which the males and females descended from the bull were slaughtered.
Average carcass weight: average carcass weight obtained from slaughtered males and females descended from the bull.
Mean fat cover: mean of the fat cover values obtained from slaughtered males and females descended from the bull.
Conformation: most frequent conformation value obtained in slaughtered males and females descended from the bull.

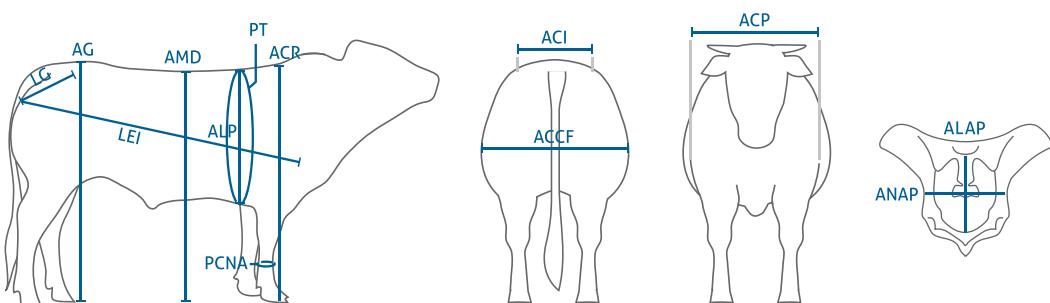
"Culón" trait

The "culón" trait, also known as muscular hypertrophy or double rump, consists of a great muscular development of the most valuable parts of the carcass and is present in a large part of the Rubia Gallega breed. There is a laboratory test to detect the genetic degree of "culón" trait, so that, based on the results of this analysis in the parents, the type of the offspring can be predicted by applying Mendel's Laws (CC for homozygosis of the culón gene, CN for heterozygosis of the culón gene and NN for absence of the gene for "culón" trait).

		Ass type inheritance		
		Stallion		
		CC	CN	NN
Cow	CC	100% CC	50% CN 50% CC	100% CN
	CN	50% CC 50% CN	25% CC 50% CN 25% NN	50% CN 50% NN
	NN	100% CN	50% CN 50% NN	100% NN

Zoometric measurements at 14 months

Height measurements	Length measurements	
ACR: Height at withers AMD: Height at mid back AG: Height at croup entry ALP: Height of chest	LEI: scapular-ischial length LG: Croup length	
Width measurements	Perimeter measurements	Pelvic measurements
ACP: Chest width ACI: Iliac width ACCF: Coxofemoral width	PT: Thoracic perimeter PCNA: Shank perimeter	ALAP: Pelvic area height ANAP: Pelvic area width

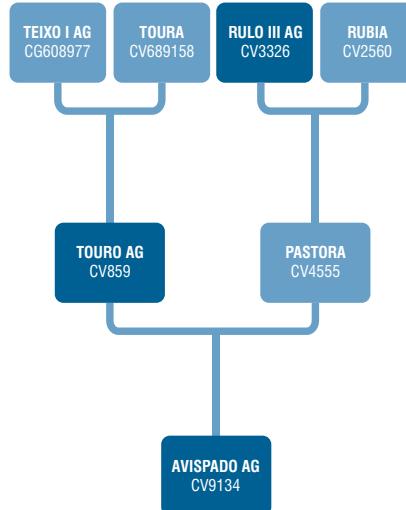




Avispado AG



Genealogy



Mauricio de los Santos

Genetic evaluation (January 2021)

ICO NCTO	107,01	ICO 210	122,59	ICO MAT	71,00	ICO PESO	105,77	ICO CONF	123,35	ICO ENGR	78,63	ICV	81,08	ICC	124,52
PREC NCTO	99,4%	PREC 210	98,7%	PREC MAT	86,5%	PREC PESO	99,4%	PREC CONF	99,3%	PREC ENGR	99%	PREC ICV	99%	PREC ICC	99,2%

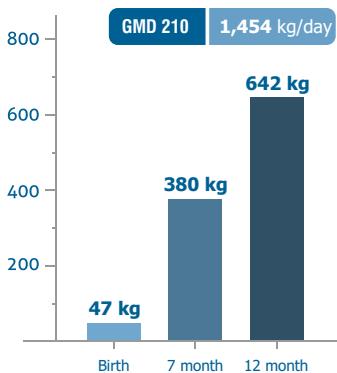


Myostatin ("culon") gene

Individual control (14 months)

CM	GMD	IC
83,00	1,73k/d	5,60

Weights



Recommendations

Provides offspring with good meat conformation.

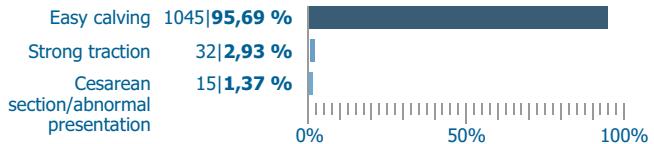
Indicated for industrial crossing.

Recommended for adult cows.

Productive data of the offspring | Made with 1,166 calves

	Males		Females		TOTAL	
	Number	Average weight	Number	Average weight	Number	Average weight
Birth	576	43 kg	590	40 kg	1166	41,48 kg
Weaning	163	320,72 Kg	250	301,5 Kg	413	309,09 Kg
GMD ₂₁₀	1,311 kg/day		1,200 kg/day		1,25 kg/day	

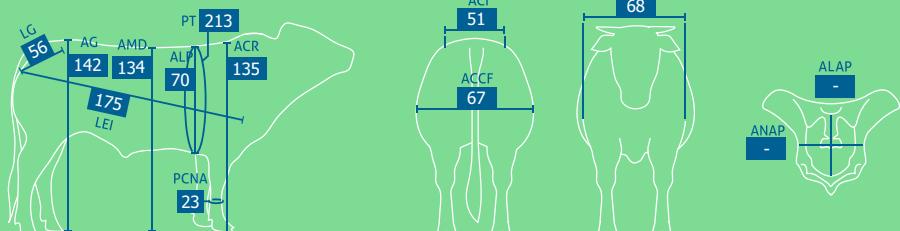
Calving ease



Slaughter

	Number of animal slaughtered	Average age at slaughter	Average carcass weight	Meat fat cover	Conformation
Males	260	265 días	242 kg	2	E
Females	166	273 días	207 kg	2	U

Zoometric measurements at 14 month





Caseiro AG

ID | CG25348/ES001110784785

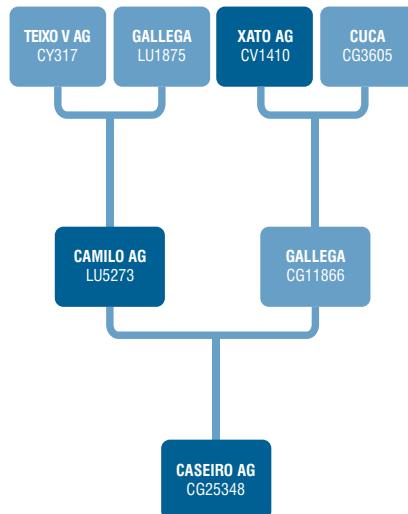
CODE IA | 1BRG0150

Date birth | 28/05/2016

Breeder | María Soledad Fernández Arrojo, O Corgo (LU)



Genealogy



Genetic evaluation (January 2021)

ICO NCTO	119,69	ICO 210	96,89	ICO MAT	102,14	ICO PESO	82,06	ICO CONF	102,09	ICO ENGR	102,85	ICV	111,39	ICC	100,84
PREC NCTO.	98%	PREC 210	94,3%	PREC MAT	79,7%	PREC PESO	95,8%	PREC CONF	94,7%	PREC ENGR	92,7%	PREC ICV	86,3%	PREC ICC	95,3%

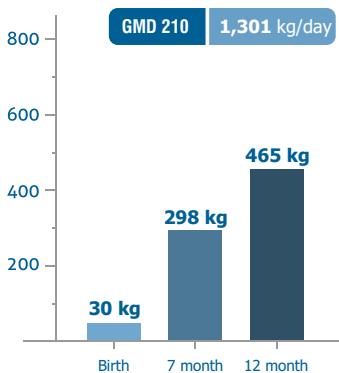


Myostatin ("culon") gene

Individual control (14 months)

CM	GMD	IC
80,00	1,342k/d	5,86

Weights



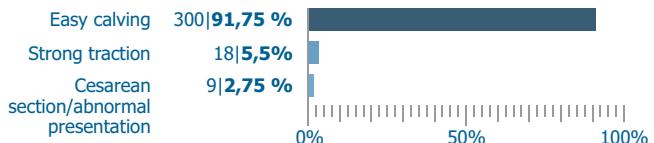
Recommendations

Their descendants have low birth weight.

Productive data of the offspring | Made with 333 calves

	Males		Females		TOTAL	
	Number	Average weight	Number	Average weight	Number	Average weight
Birth	169	39 kg	164	37 kg	333	38,02 kg
Weaning	22	290,05 Kg	40	272,98 Kg	62	279,04 Kg
GMD ₂₁₀	1,210 kg/day		1,192 kg/day		1,20 kg/day	

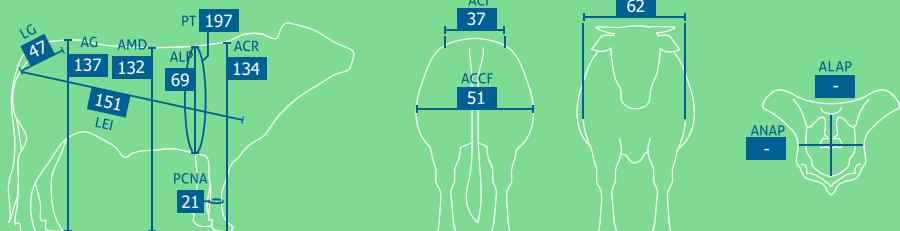
Calving ease



Slaughter

	Number of animal slaughtered	Average age at slaughter	Average carcass weight	Meat fat cover	Conformation
Males	28	246 días	215 kg	2	E
Females	19	267	175 kg	2	R+

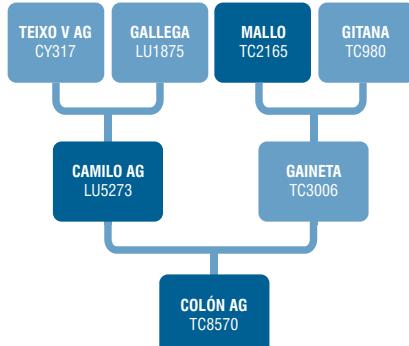
Zoometric measurements at 14 month





Mauricio de los Santos

Genealogy



Genetic evaluation (january 2021)

ICO NCTO	109,97	ICO 210	116,72	ICO MAT	90,46	ICO PESO	96,27	ICO CONF	113,76	ICO ENGR	95,07	ICV	100,03	ICC	115,08
PREC NCTO	97,8%	PREC 210	94,4%	PREC MAT	79,6%	PREC PESO	95,6%	PREC CONF	94,6%	PREC ENGR	92,5%	PREC ICV	86,2%	PREC ICC	95,2%

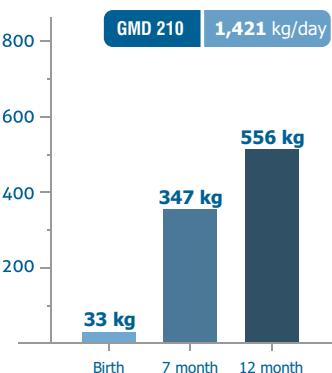


Myostatin ("culon") gene

Individual control (14 months)

CM	GMD	IC
81,50	1,758k/d	3,98

Weights



Recommendations

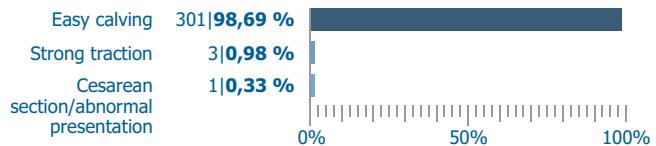
Good relationship weight at birth
weight at weaning.

Good meat conformation.

Productive data of the offspring | Made with 323 calves

	Males		Females		TOTAL	
	Number	Average weight	Number	Average weight	Number	Average weight
Birth	152	42 kg	171	39 kg	323	40,41 kg
Weaning	22	305,09 Kg	43	293,95 Kg	65	297,72 Kg
GMD ₂₁₀	1,291 kg/day		1,213 kg/day		1,252 kg/day	

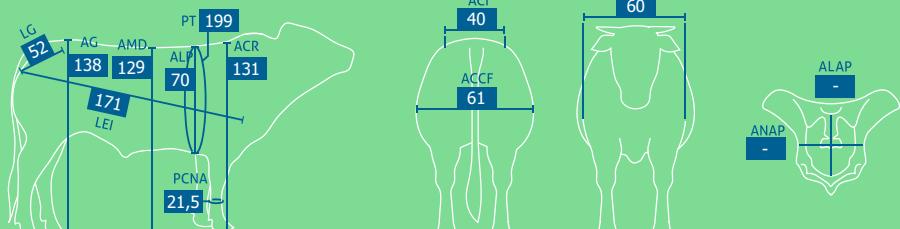
Calving ease



Slaughter

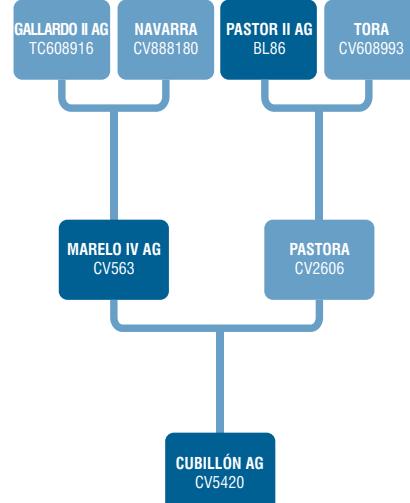
	Number of animal slaughtered	Average age at slaughter	Average carcass weight	Meat fat cover	Conformation
Males	22	250 días	228 kg	2	U+
Females	16	268 días	192 kg	2	U+

Zoometric measurements at 14 month





Genealogy



Sylvie Gouin

Genetic evaluation (january 2021)

ICO NCTO	104,65	ICO 210	120,39	ICO MAT	99,28	ICO PESO	108,41	ICO CONF	120,02	ICO ENGR	95,93	ICV	107,59	ICC	121,95
PREC NCTO.	99,8%	PREC 210	99,2%	PREC MAT	96,3%	PREC PESO	99,9%	PREC CONF	99,8%	PREC ENGR	99,8%	PREC ICV	97,8%	PREC ICC	99,7%

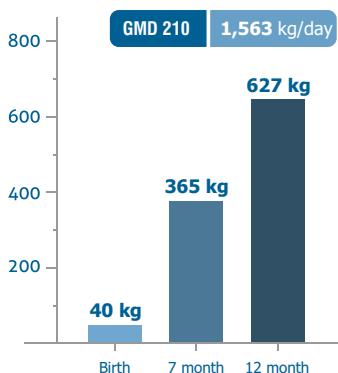


Myostatin ("culon") gene

Individual control (14 months)

CM	GMD	IC
82,00	1,344k/d	6,54

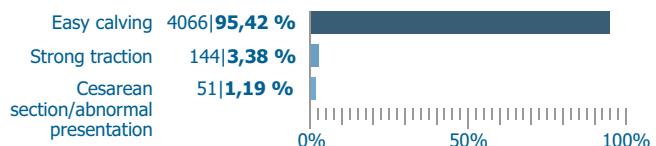
Weights



Productive data of the offspring | Made with 4.492 calves

	Males		Females		TOTAL	
	Number	Average weight	Number	Average weight	Number	Average weight
Birth	2148	43 kg	2344	41 kg	4492	41,96 kg
Weaning	357	317,33 Kg	526	302,8 Kg	883	308,67 Kg
GMD ₂₁₀	1,266 kg/day		1,216 kg/day		1,24 kg/day	

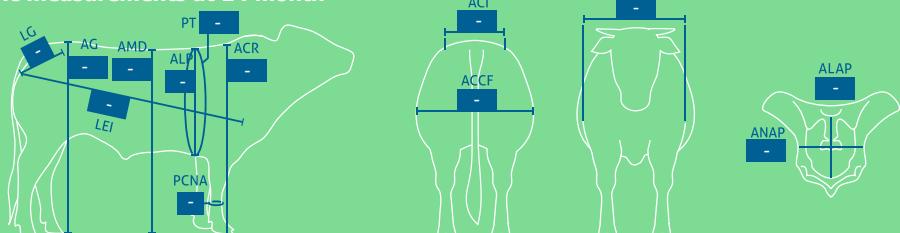
Calving ease



Slaughter

	Number of animal slaughtered	Average age at slaughter	Average carcass weight	Meat fat cover	Conformation
Males	1213	271 días	248 kg	2	E
Females	868	282 días	207 kg	2	U

Zoometric measurements at 14 month



Recommendations

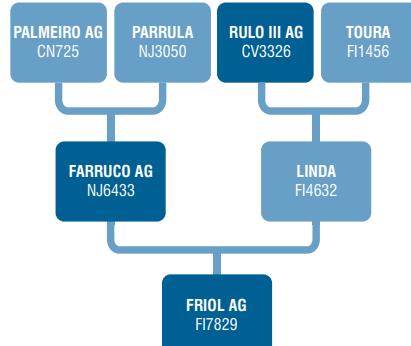
It presents ease of calving although it is not recommended for heifers.

Their descendants have good GMD and good conformation.

Indicated for industrial crossing.



Genealogy



Genetic evaluation (January 2021)

ICO NCTO	90,32	ICO 210	126,27	ICO MAT	89,46	ICO PESO	103,81	ICO CONF	116,26	ICO ENGR	92,47	ICV	91,57	ICC	115,82
PREC NCTO	97,7%	PREC 210	96%	PREC MAT	82,2%	PREC PESO	96,9%	PREC CONF	96,1%	PREC ENGR	94,5%	PREC ICV	88,2%	PREC ICC	96,4%

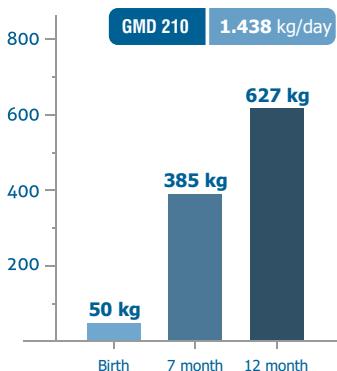


Myostatin ("culon") gene

Individual control (14 months)

CM	GMD	IC
80,00	1,600k/d	5,44

Weights



Recommendations

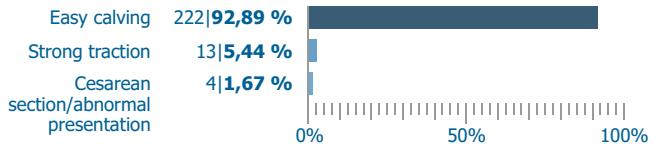
Provides offspring with good weaning weight and good meat conformation.

Indicated for industrial crossing.

Productive data of the offspring | Made with 264 calves

	Males		Females		TOTAL	
	Number	Average weight	Number	Average weight	Number	Average weight
Birth	115	46 kg	149	42 kg	264	43,74 kg
Weaning	28	299,43 Kg	68	292,6 Kg	96	294,59 Kg
GMD ₂₁₀	1,321 kg/day		1,221 kg/day		1,271 kg/day	

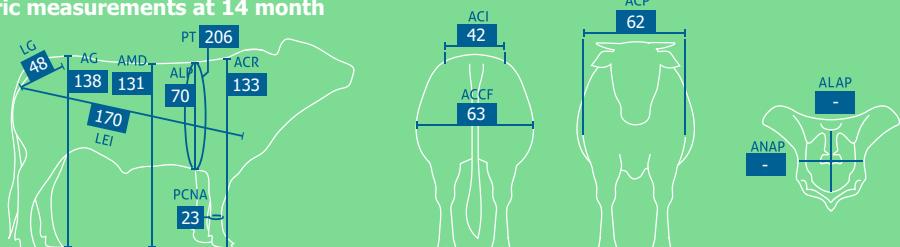
Calving ease



Slaughter

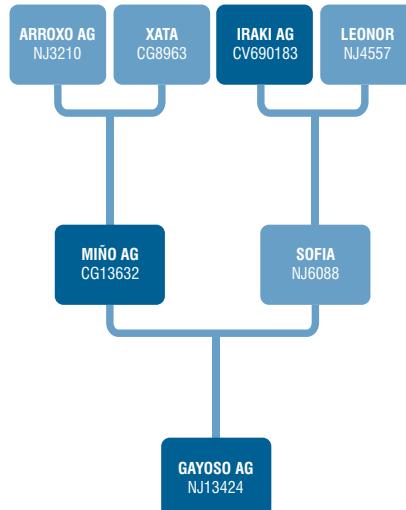
	Number of animal slaughtered	Average age at slaughter	Average carcass weight	Meat fat cover	Conformation
Males	28	259 días	226 kg	2	U+
Females	39	264 días	199 kg	2	U

Zoometric measurements at 14 month





Genealogy



Genetic evaluation (January 2021)

ICO NCTO	112,97	ICO 210	123,5	ICO MAT	91,68	ICO PESO	104,15	ICO CONF	127,11	ICO ENGR	81,23	ICV	101,95	ICC	128,33
PREC NCTO	99,6%	PREC 210	99%	PREC MAT	84,2%	PREC PESO	99,6%	PREC CONF	99,6%	PREC ENGR	99,3%	PREC ICV	90,8%	PREC ICC	99,5%

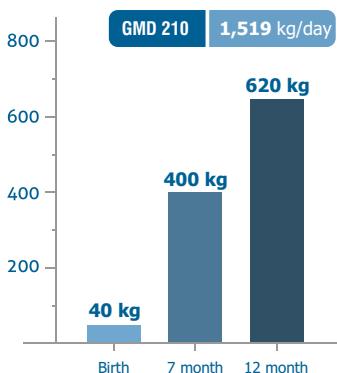


Myostatin ("culon") gene

Individual control (14 months)

CM	GMD	IC
82,00	1,356k/d	5,95

Weights



Recommendations

Presents ease of delivery.

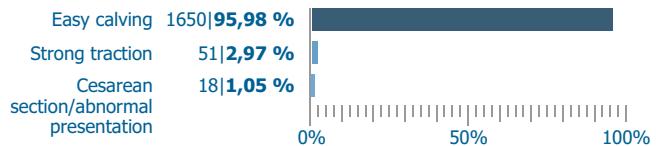
Their descendants have excellent conformation.

Indicated for industrial crossing and pure breed.

Productive data of the offspring | Made with 1.850 calves

	Males		Females		TOTAL	
	Number	Average weight	Number	Average weight	Number	Average weight
Birth	896	41 kg	954	39 kg	1850	39,97 kg
Weaning	236	321,05 Kg	405	299,69 Kg	641	307,55 Kg
GMD ₂₁₀	1,339 kg/day		1,215 kg/day		1.27 kg/day	

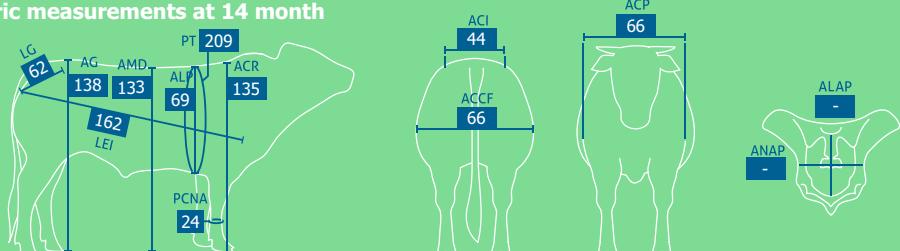
Calving ease



Slaughter

	Number of animal slaughtered	Average age at slaughter	Average carcass weight	Meat fat cover	Conformation
Males	379	259 días	238 kg	2	U+
Females	286	273 días	201 kg	2	U

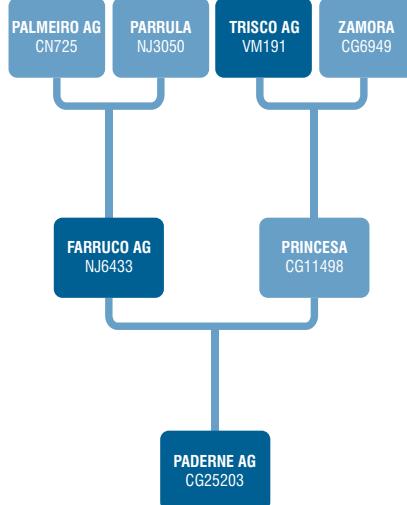
Zoometric measurements at 14 month





Mauricio de los Santos

Genealogy



Genetic evaluation (january 2021)

ICO NCTO	114,21	ICO 210	129,25	ICO MAT	69,58	ICO PESO	108,16	ICO CONF	121,27	ICO ENGR	104,98	ICV	92,06	ICC	128,13
PREC NCTO	98,6%	PREC 210	96,8%	PREC MAT	82,2%	PREC PESO	98,4%	PREC CONF	97,9%	PREC ENGR	97%	PREC ICV	88,9%	PREC ICC	97,9%

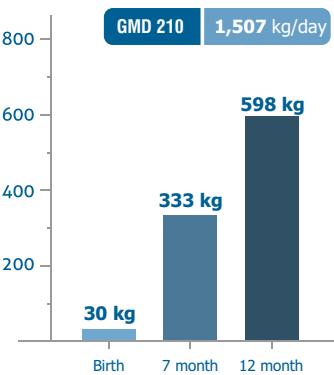


Myostatin ("culon") gene

Individual control (14 months)

CM	GMD	IC
80,00	2,008k/d	3,61

Weights



Recommendations

Provides offspring with a good birth weight to weaning weight ratio and good meat conformation

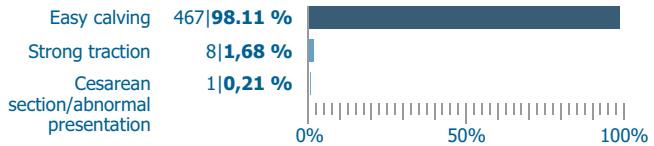
Recommended for heifers.

Indicated for industrial crossing.

Productive data of the offspring | Made with 508 calves

	Males		Females		TOTAL	
	Number	Average weight	Number	Average weight	Number	Average weight
Birth	249	41 kg	259	39 kg	508	326.98 kg
Weaning	55	226,98 Kg	70	300,09 Kg	125	311,92 Kg
GMD ₂₁₀	1,311 kg/day		1,214 kg/day		1.262 kg/day	

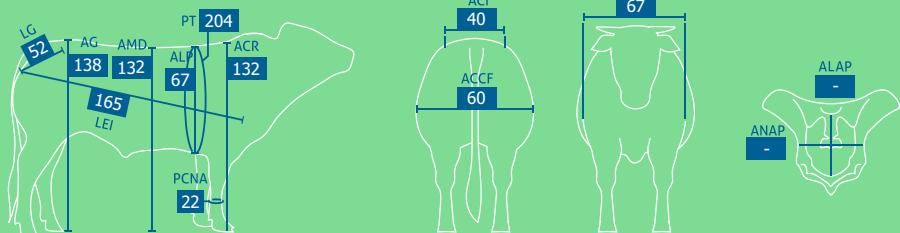
Calving ease



Slaughter

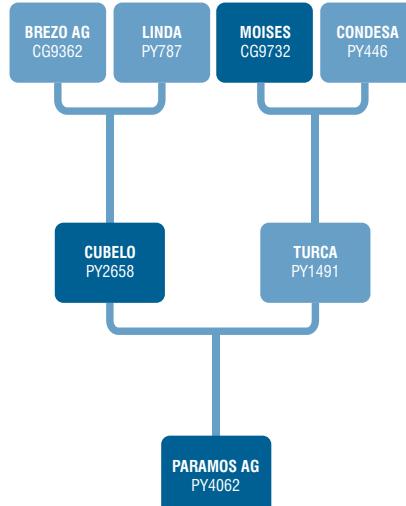
	Number of animal slaughtered	Average age at slaughter	Average carcass weight	Meat fat cover	Conformation
Males	90	252 días	238 kg	2	E
Females	47	258 días	198 kg	2	U

Zoometric measurements at 14 month





Genealogy



Genetic evaluation (January 2021)

ICO NCTO	103,17	ICO 210	124,41	ICO MAT	72,46	ICO PESO	119,27	ICO CONF	132,53	ICO ENGR	93,34	ICV	90,01	ICC	133,43
PREC NCTO	98,2%	PREC 210	97,5%	PREC MAT	80,7%	PREC PESO	98,2%	PREC CONF	97,7%	PREC ENGR	96,7%	PREC ICV	87,9%	PREC ICC	97,8%

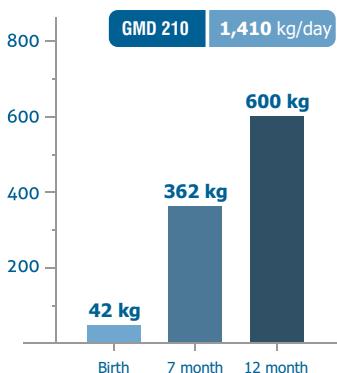


Myostatin ("culon") gene

Individual control (14 months)

CM	GMD	IC
80,00	1,617k/d	5,95

Weights



Recommendations

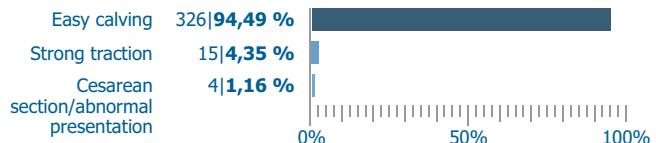
Provides offspring with a good birth weight to weaning weight ratio and good meat conformation. Recommended for heifers.

Indicated for industrial crossing.

Productive data of the offspring | Made with 369 calves

	Males		Females		TOTAL	
	Number	Average weight	Number	Average weight	Number	Average weight
Birth	186	44 kg	183	40 kg	369	42,02 kg
Weaning	77	316,64 Kg	107	302,71 Kg	184	308,54 Kg
GMD ₂₁₀	1,280 kg/day		1,218 kg/day		1.25 kg/day	

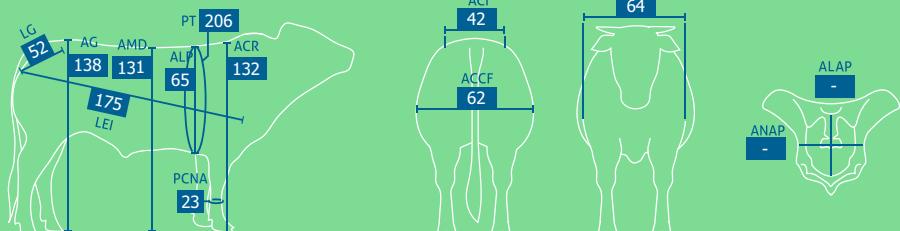
Calving ease



Slaughter

	Number of animal slaughtered	Average age at slaughter	Average carcass weight	Meat fat cover	Conformation
Males	72	255 días	247 kg	2	U+
Females	45	270 días	208 kg	2	U

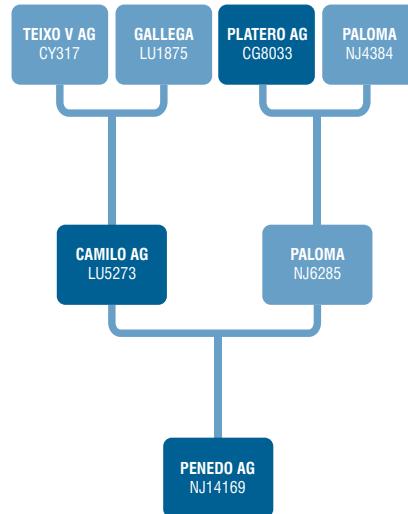
Zoometric measurements at 14 month





Mauricio de los Santos

Genealogy



Genetic evaluation (January 2021)

ICO NCTO	100,21	ICO 210	115,3	ICO MAT	86,44	ICO PESO	103,33	ICO CONF	130,03	ICO ENGR	86,42	ICV	96,06	ICC	123,57
PREC NCTO	97,6%	PREC 210	95%	PREC MAT	80,9%	PREC PESO	97,2%	PREC CONF	96,5%	PREC ENGR	95%	PREC ICV	87,5%	PREC ICC	96,5%

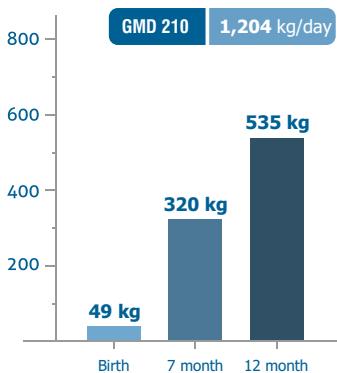


Myostatin ("culon") gene

Individual control (14 months)

CM	GMD	IC
80,00	1,778k/d	4,95

Weights



Recommendations

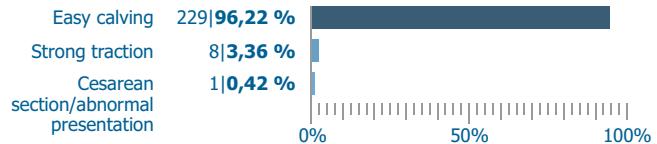
Provides good offspring with good birth weight weaning weight ratio and good meat conformation.

Indicated for industrial crossing.

Productive data of the offspring | Made with 256 calves

	Males		Females		TOTAL	
	Number	Average weight	Number	Average weight	Number	Average weight
Birth	131	43 kg	125	42 kg	256	42,51 kg
Weaning	24	295,29 Kg	50	302,6 Kg	74	300,23 Kg
GMD ₂₁₀	1,243 kg/day		1,200 kg/day		1,22 kg/day	

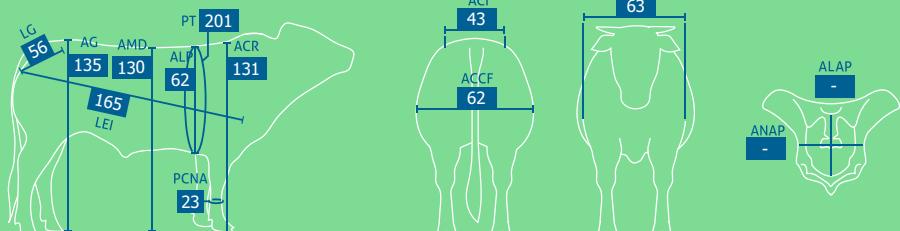
Calving ease



Slaughter

	Number of animal slaughtered	Average age at slaughter	Average carcass weight	Meat fat cover	Conformation
Males	49	258 días	229 kg	2	U+
Females	24	269 días	208 kg	2	U

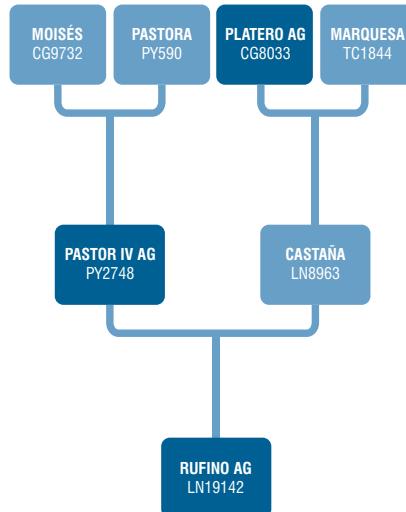
Zoometric measurements at 14 month





Mauricio de los Santos

Genealogy



Genetic evaluation (January 2021)

ICO NCTO	101,61	ICO 210	127,05	ICO MAT	98,66	ICO PESO	117,24	ICO CONF	116,68	ICO ENGR	91,61	ICV	102,94	ICC	123,68
PREC NCTO	97,5%	PREC 210	94,8%	PREC MAT	79,6%	PREC PESO	96,9%	PREC CONF	96,1%	PREC ENGR	94,5%	PREC ICV	86,6%	PREC ICC	96,2%

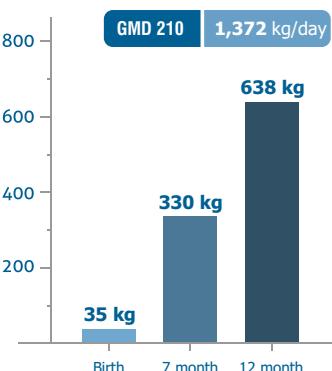


Myostatin ("culon") gene

Individual control (14 months)

CM	GMD	IC
81,50	2,244k/d	4,51

Weights



Recommendations

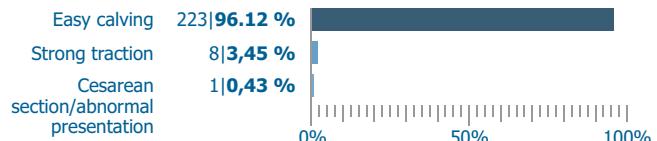
Provides good offspring with good birth weight weaning weight ratio and good meat conformation.

Indicated for industrial crossing.

Productive data of the offspring | Made with 256 calves

	Males		Females		TOTAL	
	Number	Average weight	Number	Average weight	Number	Average weight
Birth	128	43 kg	128	41 kg	256	42 kg
Weaning	31	316,55 Kg	45	299,07 Kg	76	306,20 Kg
GMD ₂₁₀	1,309 kg/day		1,255 kg/day		1,282 kg/day	

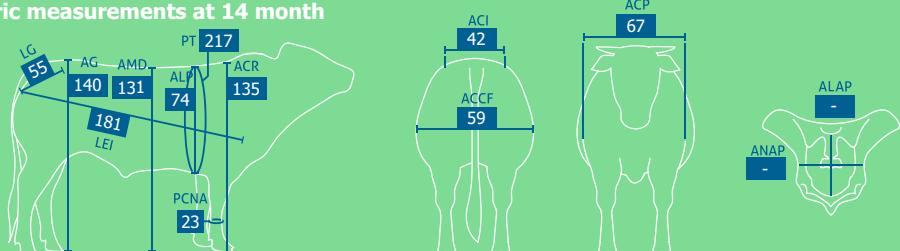
Calving ease



Slaughter

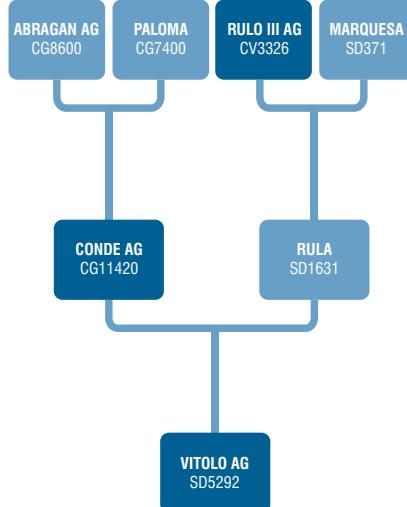
	Number of animal slaughtered	Average age at slaughter	Average carcass weight	Meat fat cover	Conformation
Males	51	248 días	238 kg	2	U+
Females	23	259 días	221 kg	2	U

Zoometric measurements at 14 month





Genealogy



Genetic evaluation (january 2021)

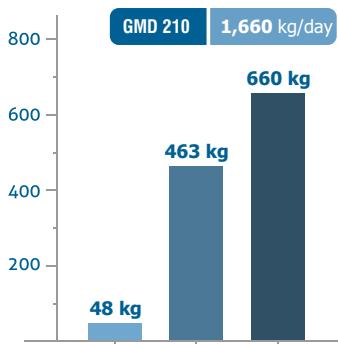
ICO NCTO 100,49	ICO 210 124,50	ICO MAT 82,28	ICO PESO 110,72	ICO CONF 120,44	ICO ENGR 70,85	ICV 83,15	ICC 122,88
PREC NCTO 98,9%	PREC 210 97,8%	PREC MAT 83,2%	PREC PESO 98,6%	PREC CONF 98,3%	PREC ENGR 97,5%	PREC ICV 89,6%	PREC ICC 98,4%



Myostatin ("culon") gene

Individual control (14 months)

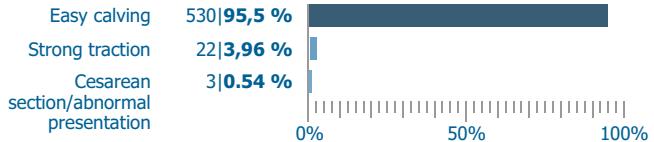
CM	GMD	IC
81,50	1,656k/d	5,94



Productive data of the offspring | Made with 630 calves

	Males		Females		TOTAL	
	Number	Average weight	Number	Average weight	Number	Average weight
Birth	314	43 kg	316	41 kg	630	42 kg
Weaning	79	326,27 Kg	134	304,52 Kg	213	312,59 Kg
GMD ₂₁₀	1,365 kg/day		1,221 kg/day		1.293 kg/day	

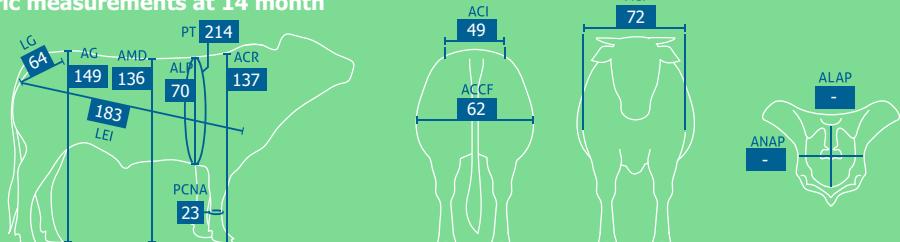
Calving ease



Slaughter

	Number of animal slaughtered	Average age at slaughter	Average carcass weight	Meat fat cover	Conformation
Males	95	258 días	246 kg	2	E
Females	66	268 días	202 kg	2	U

Zoometric measurements at 14 month



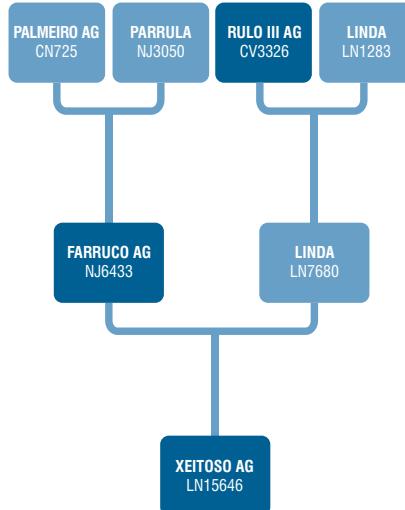
Recommendations

Provides good offspring with good weaning weight and good meat conformation.

Indicated for industrial crossing.



Genealogy



Genetic evaluation (January 2021)

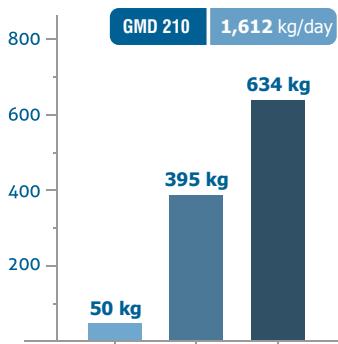
ICO NCTO	110,85	ICO 210	120,83	ICO MAT	93,39	ICO PESO	109,79	ICO CONF	122,10	ICO ENGR	97,66	ICV	106,91	ICC	125,60
PREC NCTO	99,8%	PREC 210	99,3%	PREC MAT	92,4%	PREC PESO	99,9%	PREC CONF	99,8%	PREC ENGR	99,8%	PREC ICV	95,6%	PREC ICC	99,7%



Myostatin ("culon") gene

Individual control (14 months)

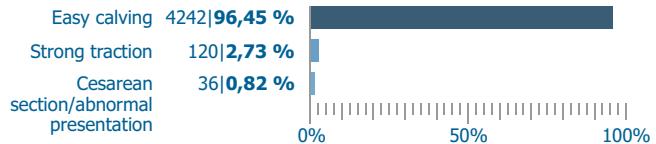
CM	GMD	IC
82,50	1,583k/d	5,95



Productive data of the offspring | Made with 4,670 calves

	Males		Females		TOTAL	
	Number	Average weight	Number	Average weight	Number	Average weight
Birth	2300	41 kg	2370	39 kg	4670	39,99 kg
Weaning	501	319,13 Kg	803	301,43 Kg	1304	308,23 Kg
GMD ₂₁₀	1,292 kg/day		1,186 kg/day		1,239 kg/day	

Calving ease



Slaughter

	Number of animal slaughtered	Average age at slaughter	Average carcass weight	Meat fat cover	Conformation
Males	1159	266 días	244 kg	2	U
Females	841	275 días	207 kg	2	U

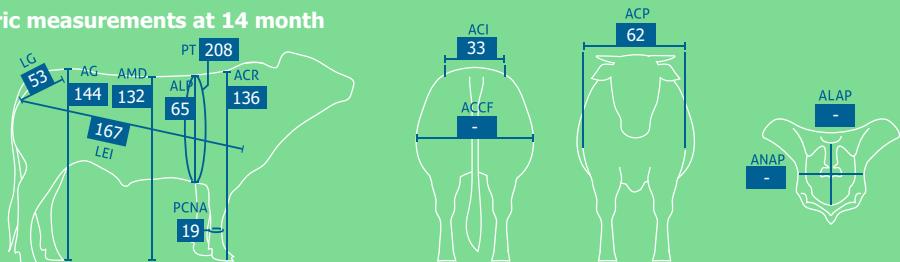
Recommendations

Presents ease of delivery.

Their descendants have good GMD and excellent conformation.

Indicated for industrial crossing and pure breed.

Zoometric measurements at 14 month



BREED IMPROVEMENT PROGRAMME

Resolution 22nd November, published in BOE, 6th December 2011.

The objective of the Programme is to improve the productive efficiency of the breed.

Phases

1) Selection of candidate calves for the testing centre

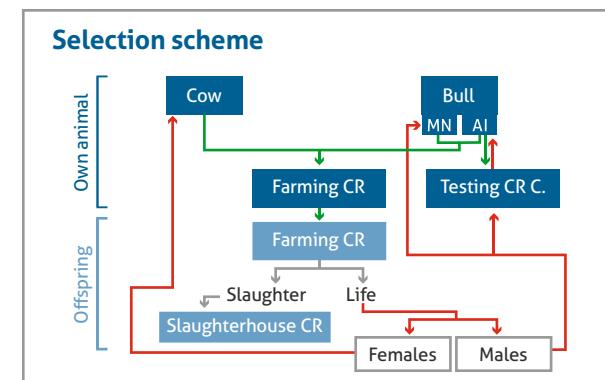
- Weight at birth: Determined by the farmer, using scales or an estimate, within 24 hours of birth.
- Weight at weaning: Determined by the field controllers, using scales or a zoom tape, at 6-8 months of age (reference: 210 days).
- Easiness of calving: This is assessed by the farmer on a scale from 1 (calved alone) to 4 (need for caesarean)
- Breeder's overall productivity: age at first calving, number of births and offspring, calving interval, breeding capacity, etc.

2) Individual assessment in testing centre: Adai, O Corgo, Lugo.

- Post-weaning average daily gain: difference in weight at the beginning and end of the test period (8 and 14 months of age) divided by the duration of the test period (6 months).
- Conversion rate: weight gain of the animal in relation to the concentrated feed consumed.
- Zoomometric measurements: taken at 14 months of age:
 - Height at withers
 - Height at mid-back
 - Height at croup entry
 - Chest height
 - Chest width
 - Iliac width
 - Coxofemoral width
 - Scapulo-ischial length
 - Croup length
 - Thoracic girth
 - Thoracic girth
 - Pelvic area width
 - Height pelvic area
- Morphological or linear grading at 14 months of age.

3) Offspring testing: control of offspring on farm and in slaughterhouse

- 3.1** On-farm progeny control: the progeny of AI and natural mating bulls shall be subjected to on-farm performance controls (phase 1).
- 3.2** Offspring control at the slaughterhouse: progeny of AI and natural mating bulls shall be subjected to these performance controls at the slaughterhouse:
- a) Age and slaughter weight
 - b) Carcass weight at slaughter (determination of carcass yield).
 - c) The conformation of the carcase, according to the SEUROP system
 - d) The fat cover of the carcase, according to the scale 1-5



Candidate calves for the testing centre

- a) Son of MFS and PFS.
- b) ADGIV210 pre-weaning (at 210 days > breed average).
- c) Morphological evaluation at weaning of Good or Very Good, based on the muscular and skeletal development of the animal.
- d) No morphological defects, no appreciable defects in conformation and within the breed standard.
- e) Comply with the sanitary requirements in force.
- f) Have confirmed parentage.

Classification of breeding animals

a) Breeding cow:

- AR or DR females
- Morphological qualification ≥ 65 points

b) Mother of future stallion (MFS):

- DR or MR females
- Daughter of father and mother DR or MR - ICO ≥ 100
- Morphological qualification ≥ 70 points (Good).
- ≥ 3 controlled carvings and ≥ 3 offspring with birth weight.
- Calving interval < 500 days.

In addition, the following reproductive characteristics will be taken into account: Precocity (age at first calving), calving interval, calving ease, breeding capacity (average daily gain at 210 days).

c) Natural Mating Bulls:

- DR males,
- Morphological qualification ≥ 70 points

d) Father of future stallion (FFS):

- DR or MR males,
- Son of father and mother DR or MR - ICO ≥ 100
- Morphological qualification ≥ 80 points (Very Good).
- ≥ 20 offspring with birth weight and weaning weight.

In addition, molecular information that provides evidence of genes related to productive traits or with the quality of the carcass and/or meat or related to undesirable traits ("culón" trait) or with diseases of genetic origin will also be taken into account.

e) Artificial Insemination Bull:

- Male offspring of MFS and FFS
- DR or MR
- Morphological qualification ≥ 80 points
- Positive individual evaluation at the testing centre.

Bulls with available doses

ID	NAME	REGISTRY	BREEDER	OWNER	FATHER	FATHER'S NAME	MOTHER	MOTHER NAME	ICOV	ICO NCTO.	PREC NCTO.	ICO 210	PREC 210	ICOC	ICO MAT	PREC MAT	ICO PESO	PREC PESO	ICO CONF	PREC CONF	ICO ENGR	PREC ENGR
CG8600	ABRAGAN AG	RD CG174	LU15	CG608977	TEIXO I AG	CG1789	BROCA	99,514	94,447	99,5	94,438	98,9	100,6	103,94	94,3	97,27	99,4	107,929	99,2	88,15	98,9	
CV3886	AGUILA AG	RM CV1	PY25	CV1410	XATO AG	CV2880	REME	114,901	106,53	99,8	99,611	99,3	101,063	118,84	98,1	96,576	99,5	100,422	99,4	93,34	99,1	
CG14000	ALFEREZ AG	RD CG15	CG416	CG9097	QUEIZAN AG	CG6585	CACHORRA	86,21	92,166	99,5	117,565	98,9	109,398	82,102	94,6	110,05	99,7	105,843	99,6	102	99,4	
CG14834	AMADEO AG	RD CG167	CG354	NJ3210	ARROXA OG	CG8963	XATA	111,21	103,61	99,2	113,252	98,4	112,255	106,19	91,3	106,64	99,4	108,763	99,2	103,7	98,9	
NJ 3210	ARROXA AG	RD NJ17	MF1	CG8033	PLATERO AG	BN314	FIGUEIRA	112,204	110,74	99,8	98,557	99	104,944	108,57	97,6	99,745	99,8	103,758	99,8	99,4	99,7	
CG 9362	BREZO AG	RM CG64	LU15	CG448	PELEGRIN AG	CG6521	MARQUESA	103,697	92,366	98,8	112,677	97,6	109,53	103,66	93,1	110,17	98,3	108,346	97,9	101,1	97,1	
CV608266	BROCO AG	RD LU63	LU15	LU675308	PALOTES AG	LU769105	BROCA	78,192	85,723	78,3	122,498	61,4	113,07	74,737	60,1	107,16	54,4	114,184	53,2	94,21	51,7	
LU2869	BUENO AG	RD LU92	LU15	CV1410	XATO AG	VO293	LAMELA	96,811	109,97	99,3	82,89	99	93,893	92,771	95,9	86,69	96,7	100,005	96,2	95,94	95,1	
CG6480	CACHORRO III AG	RD CG92	LU15	CG690197	CACHORRO II AG	CG1354	ROMERA	108,523	88,605	99,6	98,774	99,3	104,312	115,62	97,5	112,04	99,1	107,512	99	94,21	98,6	
LU5273	CAMILO AG	RD LU105	LU15	CY317	TEIXO V AG	LU1875	GALLEGA	102,612	105,73	99,9	117,214	99,4	120,924	93,011	96,5	104,455	99,9	121,274	99,9	93,34	99,9	
NJ7468	CAMPO AG	RD NJ20	LU15	CV563	MARELO IV AG	NJ2004	PRECIOSA	95,031	100,25	98,3	110,24	97,4	111,676	89,523	86,8	103,57	99,1	112,516	98,8	95,07	98,3	
CG1703	CAMPUZANO AG	RD CG97	LU15	TC608821	GALLARDO III AG	CG608893	CUCA	96,767	96,128	98,7	91,68	97,2	84,85	103,15	95,5	103,18	92,1	79,153	90,9	109,8	88,4	
CG11163	CARBALLO AG	RD CG17	LU15	BL821	VIERI AG	CG3989	XATA	102,807	102,97	99,5	91	99	91,368	110,34	95,9	90,477	99,6	93,332	99,5	89,88	99,3	
MJ287	CASON AG	RD MJ5	GL18	CG11576	MANTEIGO AG	MJ172	GALLARDA	124,335	98,729	96,6	84,452	94,4	106,067	122,51	81,9	116,27	97,4	110,431	96,8	108	95,4	
LU771326	CHANEL CO	RF	LU15	LU15				89,684	61,593	98,1	92,644	75	79,847	110,9	79,9	94,15	72,6	92,081	70	97,67	67,2	
LN21981	CHIQUITO AG	RD LNS	LU15	TC608916	GALLARDO II AG	LN8458	PAMELA	96,338	108,29	78,8	99,416	75,8	106,469	91,239	65,9	106,01	64,268	103,967	63,37	95,5	61,9	
LU659	CUCO I AG	RD LU202	LU15	CG689134	MARQUES I CO	LU685114	RUBIA	89,457	89,245	99,6	88,04	99,2	94,282	95,042	98	96,899	98,8	103,341	98,6	89,88	98	
CG24526	CURRO AG	RD CG15	LU15	CG13632	MINO AG	CG10960	GALLARDA	96,77	102,49	99	109,276	98,1	110,411	95,023	82,9	91,381	99,2	115,852	99	82,96	98,6	
CG10314	FERREIRO AG	RD CG15	CG416	CG4726	ROMERO III AG	CG3901	PARRULA	90,724	99,29	99,3	101,203	97,9	102,016	94,211	92,6	101,673	99,2	86,42	98,8			
CG682137	FRAGAVELLA AG	RD CY7	CG77	CV607090	BIENVENI	CY676137	PASTORA	90,882	80,441	98,6	92,054	95,1	91,318	97,368	94,4	93,435	91,5	102,507	90	98,53	87,7	
S13035	GAINETE T.E. AG	RD S 179	LU15	PY2748	PASTOR IV AG	TC3006	GAINETA	105,772	107,01	92,5	126,191	85,8	121,205	96,666	73,6	116,92	92,6	110,431	91,1	103,7	88	
LN15190	GALANO AG	RD LN105	LU15	CG14000	ALFEREZ AG	LN6042	PALOMA	91,793	104,01	98,5	129,921	97,5	132,715	71,47	82,5	116,35	98,8	129,615	98,5	102	97,8	
TC608916	GALLARDO II AG	RD TC7	LU15	LU675308	PALOTES AG	TC600783	PERICA	91,877	91,766	99,8	91,306	99,4	99,163	96,297	99,3	101,61	98,9	106,26	98,7	88,15	98,3	
CG1325	GARRIDO AG	RD CG22	LU15	S608633	RUFO AG	CG685283	RONDEÑA	78,412	93,207	98	110,068	96,9	90,557	75,272	93,8	95,973	82	84,574	79,8	115,8	77	
CG7422	GRANDE AG	RD CG15	LU15	CG4726	ROMERO III AG	CG608976	PERLA	88,659	75,759	98,6	104,559	97,8	108,024	97,515	92,2	116,51	97,4	115,018	96,8	84,69	95,5	
GU607720	GUAPÓ AG	RD GU38	GU38	GU607497	LINDO II	GU700694	PASTORA	114,205	100,41	92,2	97,787	86,9	107,573	103,44	67,6	107,96	91,7	109,597	89,8	119,3	86,2	
CV690183	IRAKI AG	RD CV1	LU15	S608655	MARQUES AG	CV600796	GEMELA	106,806	99,93	99,7	84,602	99,3	83,625	112,08	98,6	92,349	98,1	84,157	97,7	108,9	97	
GU608770	LINDO II AG	RD GU38	LU15	LU675308	PALOTES AG	GU800813	PALOMA	92,426	80,521	98,6	102,571	97,4	98,866	96,463	94	112,28	95,2	100,422	94,2	106,3	92,3	
CG1838	LINDO V AG	RD CG10	LU15	SD608522	PERICO I AG	CG683301	CACHORRA	107,935	77	97,6	107,063	95,3	100,704	111,06	92,1	113,28	87,2	102,507	86,4	118,4	84,4	
OY607912	LINDO VI CO	RD OY6	LU15	PS600737	TEIXO II CO	OY706814	NOVA	88,063	88,485	99,2	97,727	95,4	82,726	96,242	95,2	94,333	91,3	80,821	90,2	107,2	88,4	
FF681793	LOPO II CO	RD CO1	LU15	LU706055	MINO II CO	FF671275	PITELA	98,109	96,768	98,5	105,082	96,1	89,166	101,15	94,1	96,913	81,7	82,489	78,9	113,2	74,7	
CG8244	LORO AG	RD CG210	LU15	CV563	MARELO IV AG	CG1982	GALLARDA	88,352	86,804	98,9	109,642	98,8	110,66	100,076	95	110,04	95,5	114,601	94,8	88,15	93,2	
CG683181	MACHOTE AG	RD CG58	LU15	LU675308	PALOTES AG	CG678216	LUCERA	52,301	66,235	97,4	124,883	90,8	104,17	64,289	88,8	105,32	90,3	108,763	88,5	73,45	85	
LU551	MACHOTE II AG	RD LU81	LU15	CG684401	LINDO X CO	NJ600899	TEIXA	96,837	82,282	97,8	84,108	95,6	70,551	106,56	92,8	91,753	87,3	71,646	85,5	124,5	82,2	
CG9510	MANSO AG	RD CG15	MF1	CG5834	PACHOLO III AG	CG2206	TEIXA	117,866	100,17	99,9	95,814	99,3	100,939	129,78	98,4	99,647	99,8	103,758	99,8	82,1	99,7	
CG11576	MANTEIGO AG	RD CG33	LU15	CV563	MARELO IV AG	CG4708	GALLARDA	107,787	96,488	99,8	102,092	99	105,143	115,86	97,9	110,29	99,8	104,175	99,8	87,29	99,7	
PO1783	MANTEIGO II AG	RD PO12	LU15	CG11576	MANTEIGO AG	PO1063	LINDA	99,77	103,25	99,2	121,878	98,5	120,052	91,387	86,5	107,79	99,4	117,104	99,3	95,94	98,9	
TC609024	MARELO II AG	RD TC7	LU15	LU675102	TEIXO V CO	TC608736	CACHORRA	97,237	90,165	99,7	95,261	99,4	92,64	107,17	98,8	107,45	98	91,247	97,6	96,8	96,9	
CV563	MARELO IV AG	RD CV82	LU15	TC608916	GALLARDO II AG	CV888180	NAVARRA	98,231	95,288	99,9	99,274	99,6	100,29	105,03	99,3	99,731	99,6	103,341	99,5	86,42	99,3	
SG08655	MARQUES AG	RD S 1	LU15	S608432	LINDO	SG08212	LUCERA	106,42	93,487	97,9	95,873	95,5	95,202	105,88	93	109,59	86,4	92,498	84,6	118,4	81,6	
CG2978	MARUJON AG	RD CG21	LU15	S608633	RUFO AG	CG275	RUBIA	98,169	95,608	99,6	94,58	99,3	96,806	100,82	98,2	100,78	98,3	99,171	97,9	98,53	97,3	
CV3337	MIRANDES AG	RD CV105	LU15	CG2842	PAMELO AG	CV1696	PASIEGA	99,582	97,769	99,7	99,992	99,1	96,972	106,89	97,2	101,27	99,6	95,417	99,6	91,61	99,4	
CV5641	MONCIR AG	RD CV82	MF1	CG9510	MANSO AG	CV3881	FIGUEIRA	113,42	101,29	99,1	117,744	98,4	115,358	119,11	91,1	109,01	99,3	111,682	99,1	82,96	98,7	
CG12215	MUÑO AG	RD CG17	LU15	CG690197	CACHORRO II AG	CG2378	PASTORA	89,873	91,726	99,6	107,646	99	104,592	98,9	96,4	106,82	99,6	104,592	99,5	79,5	99,4	
LU673232	NAVARRO AG	RD LU110	LU15	LU768975	MARQUES I CO	LU676826	PASIEGA	58,001	51,948	91,6	102,72	64,2	85,273	80,035	65,3	104,37	74,1	95,834	72	83,83	68,4	
CN2257	NICOLAS AG	RD CN1	LU15	CG9510	MANSO AG	CN740	GALLARDA	104,431	96,368	99,6	125,69	99	123,102	99,121	95,5	117,73	99,7	118,772	99,7	97,67	99,5	
S4413	ORIBIO AG	RD S 40	AV2	CG4726	ROMERO III AG	S684	TOURA	85,508	89,845	98	114,56	96,2	107,467	94,931	87,8	105,57	98,2	107,512	97,7	75,18	96,7	
CV688201	PACHOLO AG	RD CV1	LU15	CG680187	LINDO VII CO	CV683105	PACHOLA	85,665	64,594	99,2	109,896	98,5	90,594	99,01	97,8	113,21	95,2	90,413	94,4	109,8	93,2	
CG3322	PACHOLO II AG	RD CG232	LU15	CV688201	PACHOLO AG</																	

ID	NAME	REGISTRY	BREEDER	OWNER	FATHER	FATHER'S NAME	MOTHER	MOTHER NAME	ICOV	ICO NCTO.	PREC NCTO.	ICO 210	PREC 210	ICOC	ICO MAT	PREC MAT	ICO PESO	PREC PESO	ICO CONF	PREC CONF	ICO ENGR	PREC ENGR
CV6821	PELEGRIÑ II AG	RD	CV105	LU15	CG8033	PLATERO AG	CV2114	MARQUESA	115,707	112,7	99,8	105,262	99,4	106,114	111,08	95	87,49	99,9	107,512	99,9	97,67	99,8
SD608522	PERICO I AG	RM	CG22	LU15	CG680112	LINDO	SD706320	MARELA	89,28	79,921	99,7	105,015	99,3	93,315	97,755	99	108,53	98,3	92,081	98	104,6	97,4
CG1333	PERICO II AG	RM	CG95	LU15	TC608916	GALLARDO II AG	CG684368	LINDA II	82,298	86,364	95,1	111,899	92,1	110,338	84,243	87,4	107,14	81,5	114,601	79,7	84,69	76,9
BL2272	PÍNEIRO AG	RD	BL40	TQ26	CG11610	TUCHO AG	BL1291	LUCERA	99,148	97,169	97,8	111,899	96,5	117,902	96,555	86,6	104,14	98,6	123,359	98,3	83,83	97,5
CG8033	PLATERO AG	RM	CG17	LU15	CV2371	PAVAROTTI AG	CG5615	PICHONA	116,004	115,54	99,9	85,274	99,5	94,408	118,3	99,1	84,636	99,9	97,92	99,9	90,75	99,9
CV4428	POKEMON AG	RD	CV29	LU15	CG1667	TEIXO IV AG	CV3150	PASTORA	118,771	116,46	99,9	82,397	98,9	90,106	124,54	97,8	83,038	99,9	92,498	99,9	89,88	99,8
CG686436	PORTO AG	RD	CG77	LU15	PY607223	MARQUES IV CO	CG608283	PERLA	88,608	79	96,2	113,529	94,9	96,448	93,953	90,6	104,75	76,2	95,417	74	108	69,7
CG6494	PULIDO AG	RD	CG167	LU15	CG2842	PAMELO AG	CG688366	PULIDA	92,691	93,927	88,8	98,064	89,7	82,25	105,18	81,4	101,14	69,2	73,731	66,8	102,9	64,2
CG9097	QUEIZAN AG	RM	CG17	CG416	TC608916	GALLARDO II AG	CG3116	GEMELA	98,244	101,45	99,7	96,277	99	92,4	102,63	96,7	91,844	99,7	92,498	99,7	95,94	99,5
CG12939	QUIJANO AG	RD	CG366	CG237	CG9510	MANSO AG	CG7511	LINDA	105,371	105,01	99,6	115,838	98,9	112,117	112,45	96,7	104,69	99,8	107,512	99,7	76,04	99,6
S9265	QUIJANO II AG	RD	S121	LU15	CG12939	QUIJANO AG	S 934	BLANCA	88,97	106,73	99	123,238	98,2	118,432	82,25	87	97,523	99,4	117,104	99,3	82,96	99
LU626	RAMBO I AG	RM	LU81	LU15	CG684398	PACIO II CO	NJ609027	LINDA	93,4	92,126	99,3	97,555	98,7	103,052	97,866	97,5	107,18	95	106,677	94,3	88,15	92,9
LU570	ROMERO I AG	RM	LU35	LU15	CG690171	LINDO IV AG	LU688195	TEIXA	86,572	92,086	98,6	101,21	96,8	77,408	95,651	93,3	81,958	83,1	74,565	81,1	107,2	77,6
CV643	ROMERO II AG	RM	CV48	LU15	S608633	RUFO AG	CV683174	ROMERA	91,734	87,324	99,5	108,902	99	109,602	90,612	98,1	116,73	98,1	109,597	97,7	100,3	96,9
CG4726	ROMERO III AG	RM	CG20	LU15	TC609024	MARELO II AG	CG986	XATA	107,488	91,646	99,7	93,833	99,4	99,32	119,78	98,4	111,41	98,9	100,422	98,7	87,29	98,3
BL343	RONALDO AG	RD	BL6	LU15	CV643	ROMERO II AG	BL608014	PICHONA	73,847	78,4	90,3	115,487	89,9	111,864	77,617	78	112,46	71,4	116,686	69,1	82,1	65
LN568	ROXO AG	RD	LN50	LU15	CG608977	TEIXO I AG	LN195	ROMERA	96,95	88,605	99,3	96,068	98,7	78,714	105,4	97,2	87,448	96,6	78,319	96,1	114,1	95
S608633	RUFO AG	RD	S3	LU15	S608432	LINDO	S608047	FIGUEIRA	82,586	87,084	99,6	107,788	99,1	108,521	80,718	98,7	112,79	96,4	110,431	95,9	95,94	95,1
CV2568	RULO II AG	RD	CV1	LU15	TC609024	MARELO II AG	CV155	PASTORA	96,522	80,841	97,2	101,091	97,5	90,386	105,69	90,9	106,74	86,7	89,579	85,2	108,9	82,3
CV3326	RULO III AG	RD	CV82	LU15	CV2371	PAVAROTTI AG	CV888180	NAVARRA	114,149	106,29	99,9	93,183	99,5	104,244	117,01	98,8	103,05	99,6	105,843	99,6	89,88	99,4
CV3039	SAMPAIO AG	RD	CV94	MF1	CY317	TEXO V AG	CV 689	XOVENCA	102,283	105,37	99,3	90,806	99	88,334	103,13	95,4	94,796	98,7	84,991	98,5	108,9	97,9
CG17967	SANTIAGO AG	RD	CG237	LN48	CG11576	MANTEIGO AG	CG9337	VELETA	96,507	103,01	98,5	115,255	97,4	116,803	94,765	89,1	116,29	98,7	110,848	98,4	87,29	97,7
CG7396	SANTOS AG	RD	CG20	LU15	TC609024	MARELO II AG	CG986	XATA	108,726	88,445	98,4	102,593	98	95,104	115,49	92,4	105,08	96,6	93,749	96	108,9	94,6
FS5027	SEQUEIRO AG	RD	FS29	LU15	CV3886	AGUILA AG	FS1464	PASTORA	102,445	98,449	97,1	113,02	95,4	105,879	103,27	83,8	98,196	98,2	105,009	97,7	95,94	96,7
CG12155	SIL AG	RD	CG167	CG237	CY317	TEIXO V AG	CG7021	MARELA	104,356	97,529	99,5	111,608	98,9	110,611	99,287	96,2	114,7	99,7	105,843	99,6	108,9	99,5
PA2844	SOLDADO AG	RD	PA16	LU15	CG4726	ROMERO III AG	PA809016	MARELA	119,247	104,61	98,7	96,741	97,6	79,047	123,95	90,4	89,397	99,1	69,561	98,9	127,1	98,3
CG608977	TEIXO I AG	RM	CG15	LU15	NJ608451	CUCO II CO	CV608553	PASTORA	77,978	95,408	99,8	93,609	99,4	88,459	87,621	99,2	84,861	98,6	93,749	98,4	78,64	98
CG1667	TEIXO IV AG	RD	CG237	LU15	CG608977	TEIXO I AG	CG577	ROMERA	89,479	91,966	98,5	93,93	98,2	88,555	100,27	95,1	84,966	93,3	95,417	92,2	84,66	89,9
CY317	TEIXO V AG	RD	CY125	LU15	TC609024	MARELO II AG	CV808247	TEIXA	97,579	99,089	99,7	96,412	99,3	95,926	95,872	98,6	100,03	98,9	95,417	98,7	107,2	98,3
CG3761	TEIXO VI AG	RD	CG119	LU15	CG1838	LINDO V AG	CG686344	LINDA	109,591	90,286	99,4	89,139	99	84,994	113,5	96,8	108,71	98,1	80,821	97,7	126,2	96,8
CV859	TOURO AG	RD	CV1	LU15	CG608977	TEIXO I AG	CV689158	TOURA	100,846	100,37	99,8	86,179	99,5	93,971	104,47	98,8	94,936	98,8	99,171	98,6	93,34	98,1
CG9553	TOXO AG	RD	CG33	CG416	CV563	MARELO IV AG	CG4708	GALLARDA	114,472	96,088	90,4	98,661	91,3	99,603	122,8	82,3	108,92	81,8	97,503	80	97,67	77,1
VM191	TRISCO AG	RD	VM2	LU15	CY317	TEXO V AG	CG2151	LUPA	104,855	102,25	99,9	89,916	99,4	92,469	107,06	98,8	96,801	99,8	92,915	99,8	102,9	99,7
TC6169	TRISCO II AG	RD	TC18	LU15	VM191	TRISCO AG	TC2584	LINDA	104,071	105,17	99,5	112,505	98,9	114,14	91,793	91,9	101,29	99,7	114,184	99,6	107,2	99,4
CG1610	TUCHO AG	RD	CG15	LU15	CV3326	RULO III AG	CG6585	CACHORRA	104,554	100,25	99,4	98,093	98,7	108,27	108,44	94,9	106,81	99,3	111,265	99,2	82,96	98,8
BL821	VIERI AG	RM	BL6	LU15	CG690197	CACHORRO II AG	BL357	FIGUEIRA	115,162	103,93	99,8	84,437	99,3	95,116	121,14	97,9	91,942	99,8	101,673	99,7	90,75	99,6
CV1410	XATO AG	RD	CV191	LU15	CG608977	TEIXO I AG	CG207	XATA	104,82	112,82	99,9	69,63	99,6	88,393	106,36	99,3	83,704	99,5	97,503	99,5	89,02	99,3
CG608319	XOVENCO II CO	RD	CG10	CG10	CG607659	NAVARRO	CG600723	LUCERA	80,461	68,816	52,86	95,373	28	86,862	90,99	33,26	96,836	29,872	97,503	29,38	101,1	27,7
IR158	ZAMBRON AG	RD	IR8	AV2	LU626	RAMBO I AG	IR65	CIREIXA	109,424	101,65	99,6	99,088	99,2	86,279	112,52	96,7	97,537	99,3	77,902	99,2	119,3	98,8

STALLIONS IN TEST WITH INDIVIDUAL EVALUATION



Adrián AG

ID | OY2057/ES021111159866

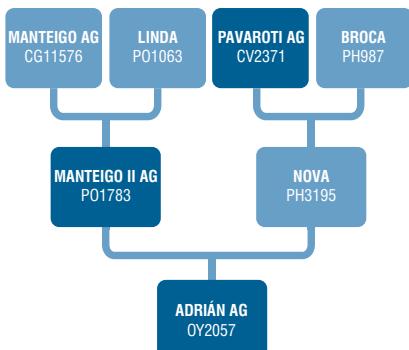
Code IA | 1BRG0152

Date birth | 17/01/2017

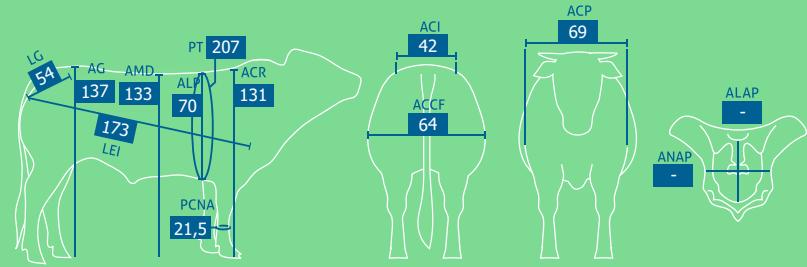
Breeder | Adrián Vázquez Jaime, Lugo (LU)



Genealogy



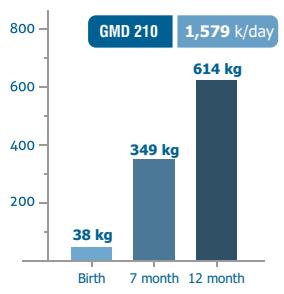
Zoometric measurements at 14 month



Individual control (14 months)

CM	81,50
GMD	1,744 k/d
IC	5,02

Weights

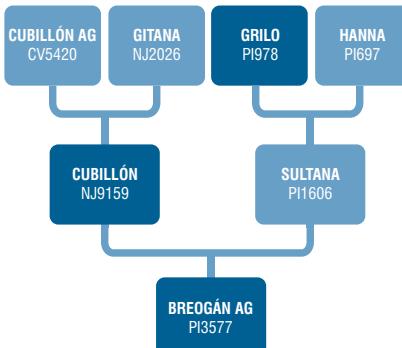


RD

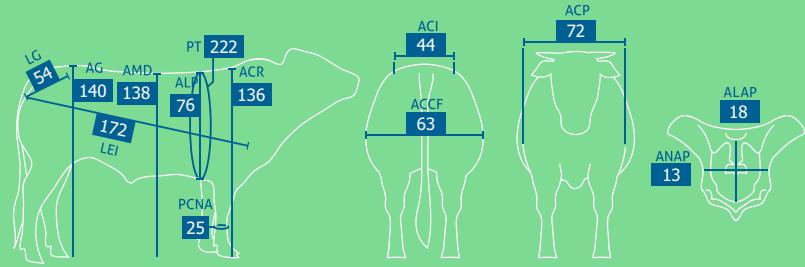
Breogán AG



Genealogy



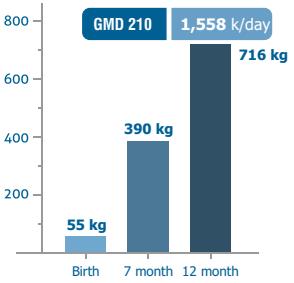
Zoometric measurements at 14 month



Individual control (14 months)

CM	81,90
GMD	2,00k/d
IC	5,59

Weights



Genetic evaluation (january 2021)

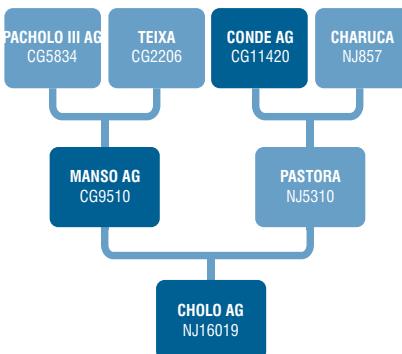
ICO NCTO.	90,60	ICO 210	138,83	ICO MAT	61,31	ICO PESO	98,86	ICO CONF	112,72	ICO ENGR	82,09	ICV	64,37	ICC	116,05
PREC NCTO.	72,3%	PREC 210	70,8%	PREC MAT	53,9%	PREC PESO	60,90%	PREC CONF	59,95%	PREC ENGR	58,16%	PREC ICV	58%	PREC ICC	63,4%

RD

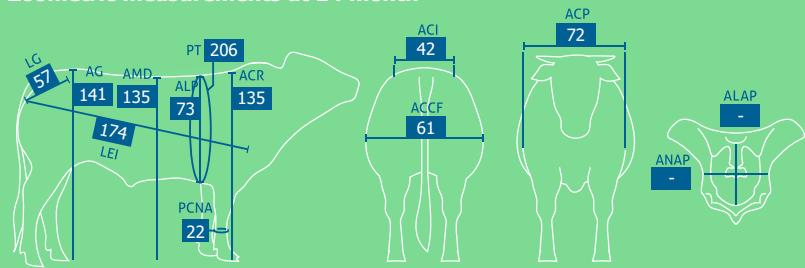
Cholo AG



Genealogy



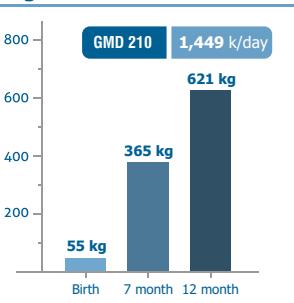
Zoometric measurements at 14 month



Individual control (14 months)

CM	82,60
GMD	1,644k/d
IC	5,57

Weights



Genetic evaluation (january 2021)

ICO NCTO.	88,72	ICO 210	110,91	ICO MAT	109,36	ICO PESO	106,51	ICO CONF	110,01	ICO ENGR	78,63	ICV	98,62	ICC	107,82
PREC NCTO.	89,7%	PREC 210	84,9%	PREC MAT	73,5%	PREC PESO	82,6%	PREC CONF	80%	PREC ENGR	76,3%	PREC ICV	77,1%	PREC ICC	82,4%



Lilo T.E. AG

ID | CG28241 / ES011112230463

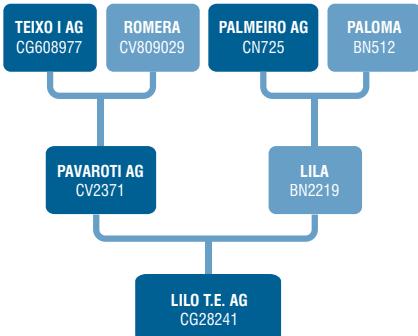
Code IA | 1BRG0160

Date birth | 29/08/2018

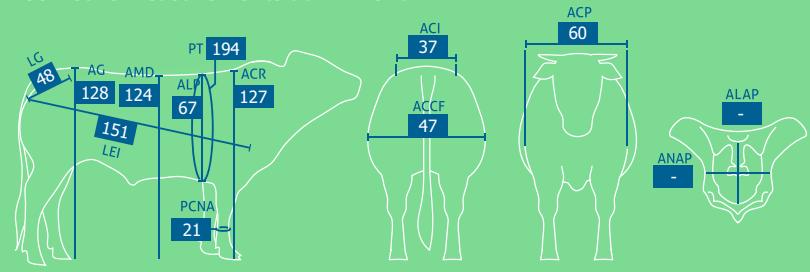
Breeder | José Antonio Ferreiro Palacios



Genealogy



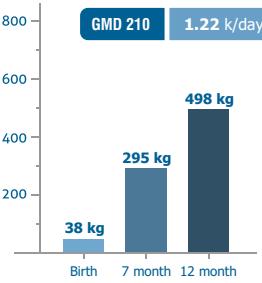
Zoometric measurements at 14 month



Individual control (14 months)

CM	73,68
GMD	1,44k/d
IC	4,68

Weights



Genetic evaluation (january 2021)

ICO NCTO.	119,85	ICO 210	79,93	ICO MAT	103,40	ICO PESO	81,41	ICO CONF	102,71	ICO ENGR	84,26	ICV	105,44	ICC	96,00
PREC NCTO.	75,6%	PREC 210	72,7%	PREC MAT	65,4%	PREC PESO	64,52%	PREC CONF	63,77%	PREC ENGR	62,33%	PREC ICV	66,1%	PREC ICC	66,8%

ID | S10881/ES091110533736

Code IA | 1BRG0147

Date birth | 14/03/2016

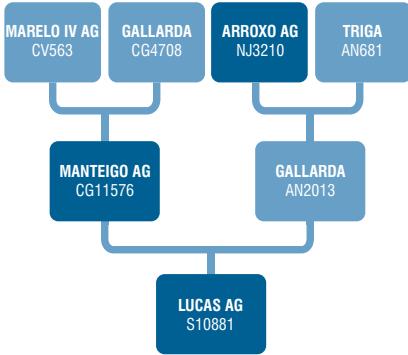
Breeder | Isabel García Alvaredo, Sarria (LU)



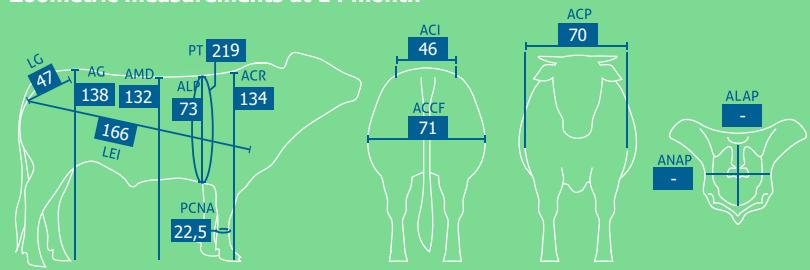
Lucas AG



Genealogy



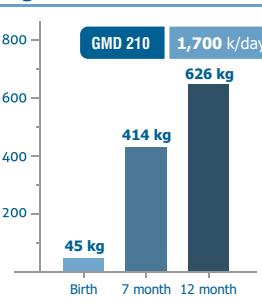
Zoometric measurements at 14 month



Individual control (14 months)

CM	82,00
GMD	1,708k/d
IC	4,44

Weights



Genetic evaluation (january 2021)

ICO NCTO.	97,72	ICO 210	146,11	ICO MAT	58,73	ICO PESO	112,87	ICO CONF	118,35	ICO ENGR	83,82	ICV	67,99	ICC	127,91
PREC NCTO.	94%	PREC 210	81,4%	PREC MAT	69,9%	PREC PESO	80,3%	PREC CONF	77,8%	PREC ENGR	73,8%	PREC ICV	75,0%	PREC ICC	66,1%



Marcelo AG

ID | FS10691/ES021111984669

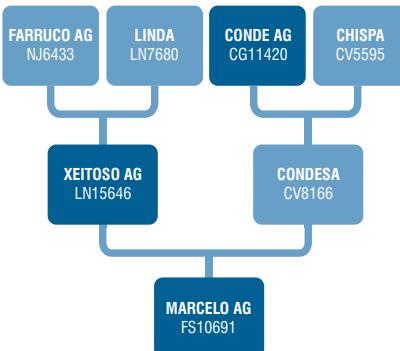
Code IA | 1BRG0157

Date birth | 12/07/2018

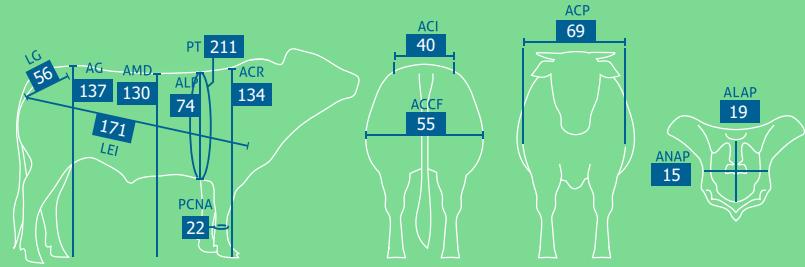
Breeder | José Fernández Vilabril, A Fonsagrada (LU)



Genealogy



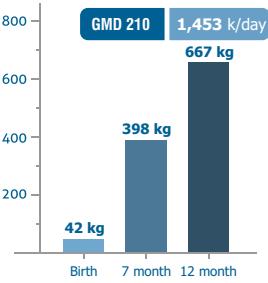
Zoometric measurements at 14 month



Individual control (14 months)

CL	84
GMD	1,930k/d
IC	4,70

Weights



Genetic evaluation (January 2021)

ICO NCTO	105,09	ICO 210	114,78	ICO MAT	97,58	ICO PESO	105,56	ICO CONF	116,26	ICO ENGR	88,15	ICV	101,95	ICC	117,31
PREC NCTO.	73,2%	PREC 210	63,10%	PREC MAT	57,84%	PREC PESO	60,87%	PREC CONF	60,46%	PREC ENGR	59,85%	PREC ICV	60,6%	PREC ICC	62,7%

Pavaroti II TE AG

ID | NJ17411/ES081112237778

Code IA | 1BRG0159

Date birth | 07/06/2018

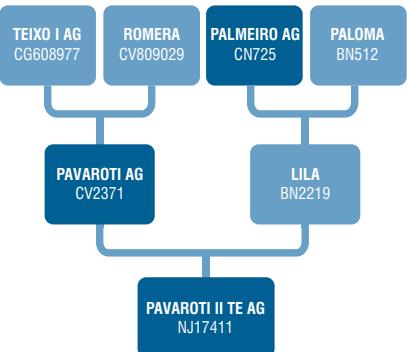
Breeder | José Francisco Álvarez López, Barralla (LU)



Pavaroti II TE AG



Genealogy

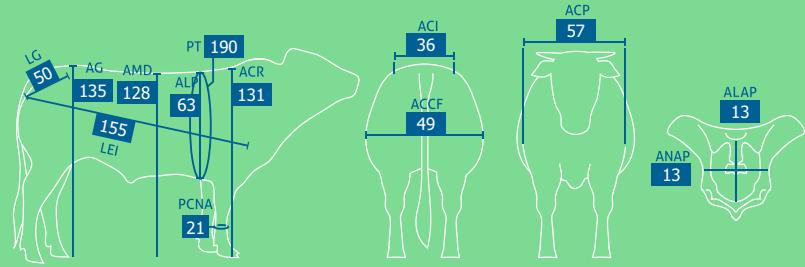


Recommendations

The most recommended for heifers.

Due to its small size, it is not recommended to raise your daughters

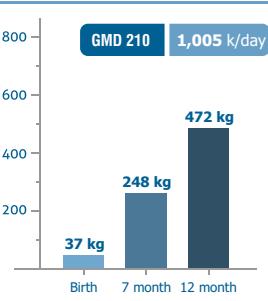
Zoometric measurements at 14 month



Individual control (14 months)

CL	69,08
GMD	1,29k/d
IC	5,80

Weights



Genetic evaluation (January 2021)

ICO NCTO	119,93	ICO 210	76,43	ICO MAT	107,24	ICO PESO	81,41	ICO CONF	102,71	ICO ENGR	84,26	ICV	108,45	ICC	94,98
PREC NCTO.	75,5%	PREC 210	72,5%	PREC MAT	65,4%	PREC PESO	64,52%	PREC CONF	63,77%	PREC ENGR	62,33%	PREC ICV	66,1%	PREC ICC	66,8%



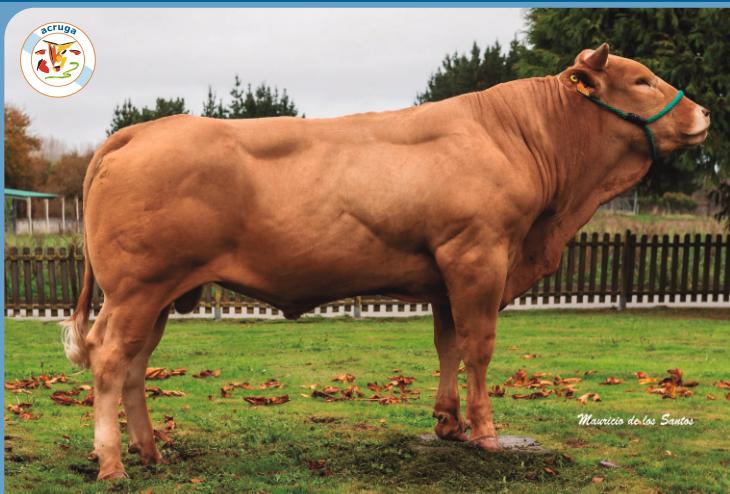
Pistón AG

ID | TC10466/ES081111889701

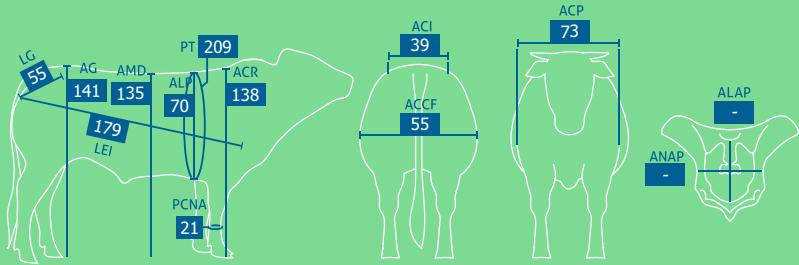
Code IA | 1BRG0162

Date birth | 08/04/2019

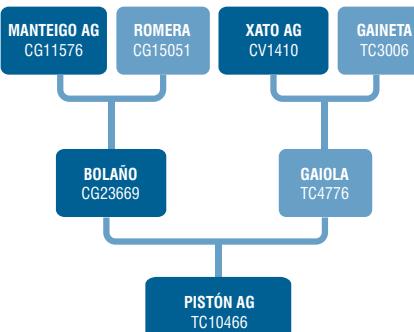
Breeder | José Manuel Balboa López



Zoometric measurements at 14 month



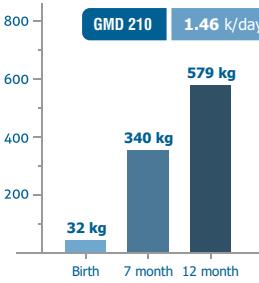
Genealogy



Individual control (14 months)

CL	88,65
GMD	1,48k/d
IC	5,83

Weights



Genetic evaluation (January 2021)

ICO NCTO.	105,21	ICO 210	110,46	ICO MAT	87,14	ICO PESO	103,12	ICO CONF	109,18	ICO ENGR	86,42	ICV	90,44	ICC	111,10
PREC NCTO.	73,5%	PREC 210	73%	PREC MAT	58,4%	PREC PESO	63,79%	PREC CONF	62,92%	PREC ENGR	61,55%	PREC ICV	61,6%	PREC ICC	65,9%

ID | CN9542/ES081112431985

Code IA | 1BRG0161

Date birth | 25/03/2019

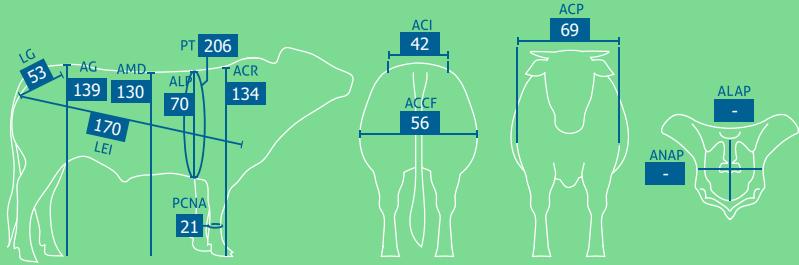
Breeder | Javier Gerboles Méndez



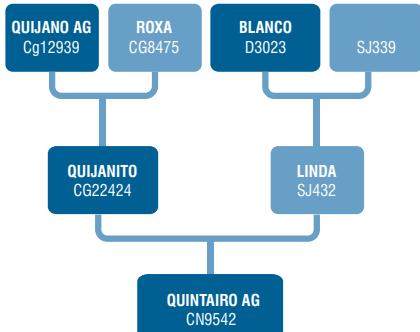
Quintairo AG



Zoometric measurements at 14 month



Genealogy



Individual control (14 months)

CL	82,85
GMD	1,75k/d
IC	4,68

Weights

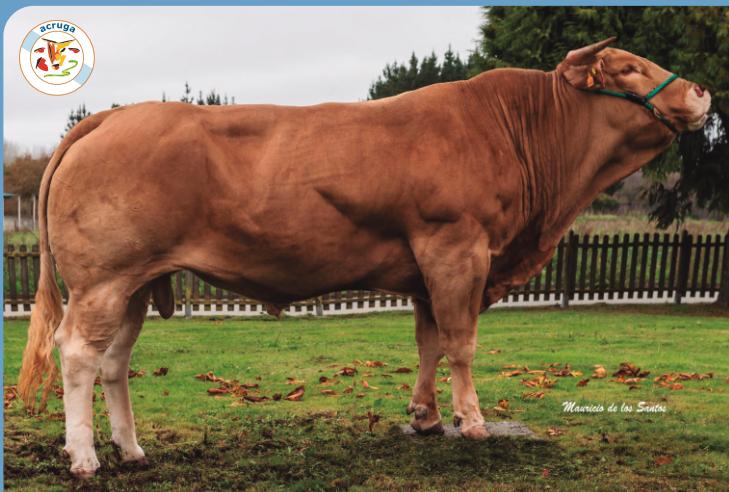


Genetic evaluation (January 2021)

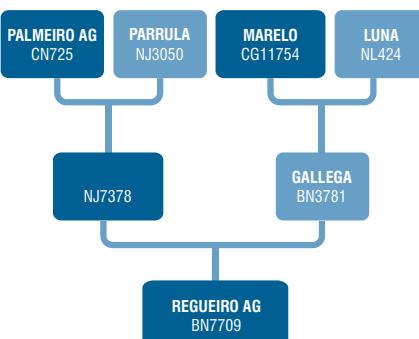
ICO NCTO.	115,29	ICO 210	119,74	ICO MAT	89,54	ICO PESO	103,13	ICO CONF	118,14	ICO ENGR	76,04	ICV	95,68	ICC	122,24
PREC NCTO.	70,5%	PREC 210	53,26%	PREC MAT	46,17%	PREC PESO	61,03%	PREC CONF	59,84%	PREC ENGR	57,84%	PREC ICV	53,2%	PREC ICC	60,5%



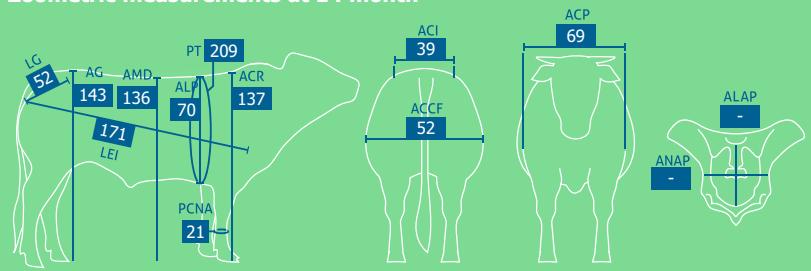
Regueiro AG



Genealogy



Zoometric measurements at 14 month

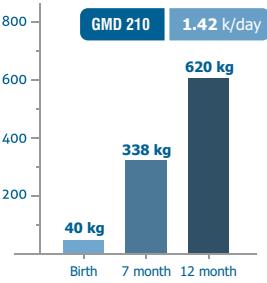


Myostatin ("culon") gene

Individual control (14 months)

CL	84
GMD	1,88k/d
IC	4,53

Weights



Genetic evaluation (January 2021)

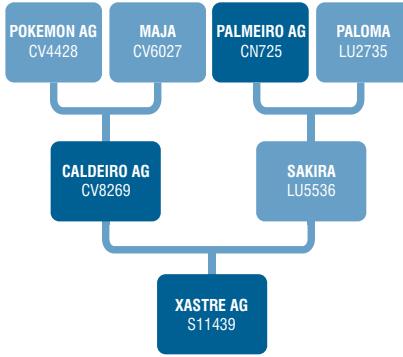
ICO NCTO.	106,53	ICO 210	103,84	ICO MAT	98,32	ICO PESO	98,90	ICO CONF	99,37	ICO ENGR	114,96	ICV	106,95	ICC	102,40
PREC NCTO.	71,7%	PREC 210	72,8%	PREC MAT	56,3%	PREC PESO	61,44%	PREC CONF	60,53%	PREC ENGR	58,97%	PREC ICV	59,4%	PREC ICC	64,0%



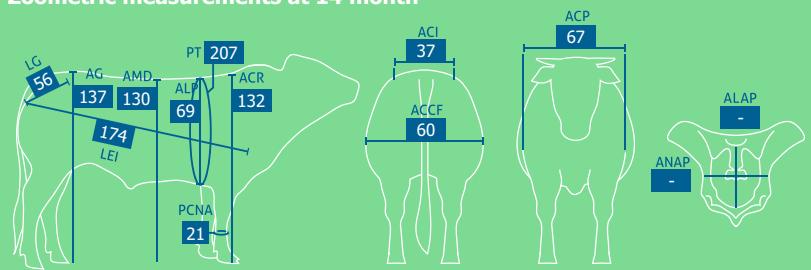
Xastre AG



Genealogy



Zoometric measurements at 14 month

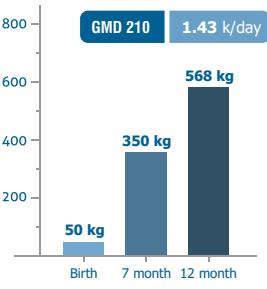


Myostatin ("culon") gene

Individual control (14 months)

CM	82,00
GMD	1,572k/d
IC	5,90

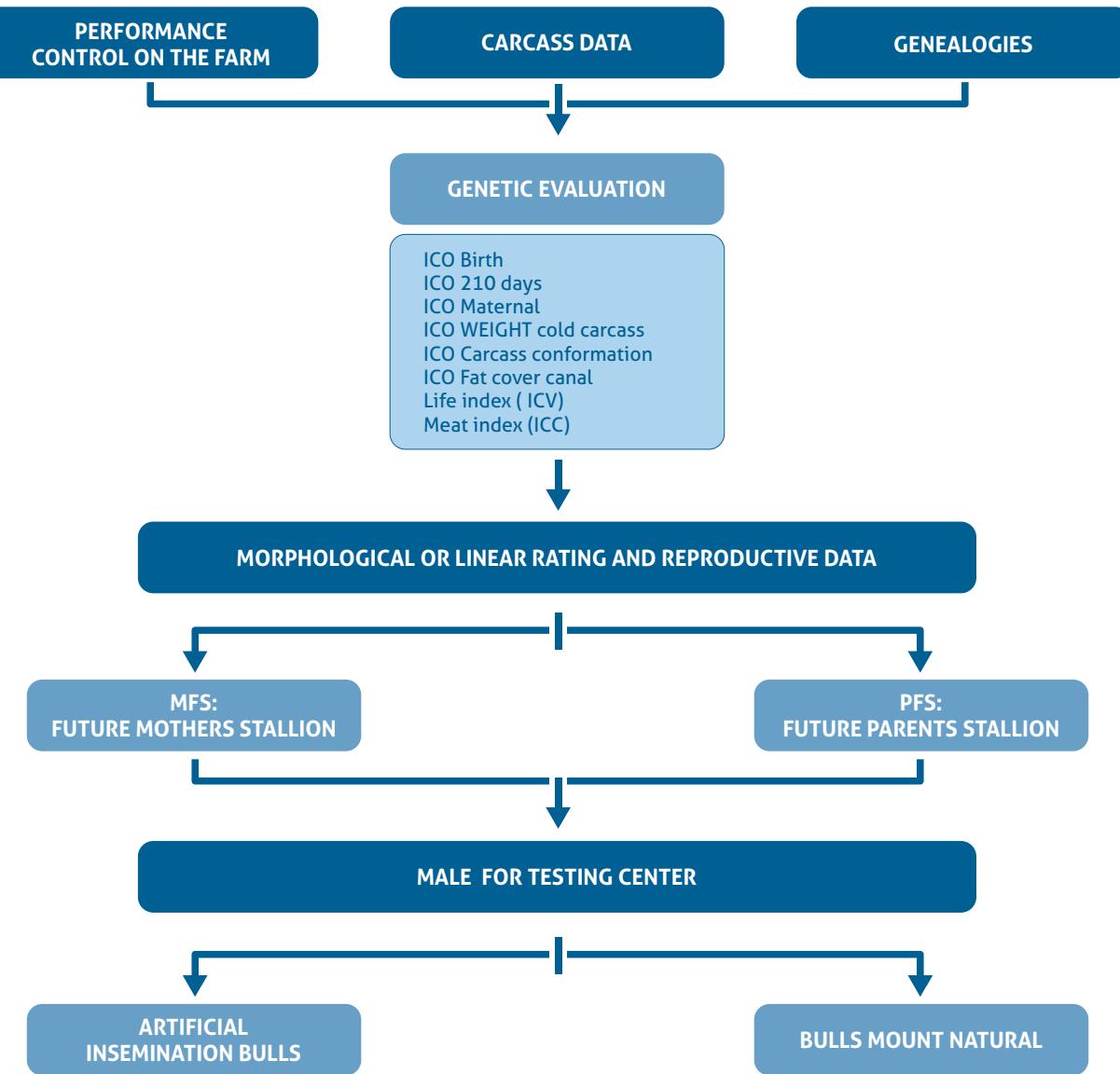
Weights



Genetic evaluation (January 2021)

ICO NCTO.	98,68	ICO 210	114,25	ICO MAT	97,29	ICO PESO	106,29	ICO CONF	110,22	ICO ENGR	95,50	ICV	99,74	ICC	111,85
PREC NCTO.	90,8%	PREC 210	77,7%	PREC MAT	63,8%	PREC PESO	61,05%	PREC CONF	60,37%	PREC ENGR	59,46%	PREC ICV	66,5%	PREC ICC	67,2%

GENETIC IMPROVEMENT SCHEME



COMPARATIVE BULLS

CLASSIFICATION OF SEMENTALS BY:

Feed conversion index:

FEED CONVERSION INDEX	PADERNE AG	3,61
	COLÓN AG	3,97
	LUCAS AG	4,44
	RUFINO AG	4,51
	REGUEIRO AG	4,53
	LILO T.T. AG	4,68
	QUINTARIO AG	4,68
	MARCELO AG	4,70
	PENEDO AG	4,95
	ADRIÁN AG	5,02
	FRIOL AG	5,44
	CHOLO AG	5,57
	BREOGÁN AG	5,59
	AVISPADO AG	5,60
	PAVAROTI II TE AG	5,80
	PISTÓN AG	5,83
	CASEIRO AG	5,86
	XASTRE AG	5,90
	VITOLO AG	5,94
	GAYOSO AG	5,95
	PARAMOS AG	5,95
	XEITOSO AG	5,95
	CUBILLÓN AG	6,54

Average daily gain (kg/d)

AVERAGE DAILY GAIN	RUFINO AG	2,24
	PADERNE AG	2,01
	BREOGÁN AG	2,0
	MARCELO AG	1,93
	REGUEIRO AG	1,88
	PENEDO AG	1,78
	COLÓN AG	1,76
	QUINTARIO AG	1,75
	ADRIÁN AG	1,74
	AVISPADO AG	1,73
	LUCAS AG	1,71
	VITOLO AG	1,66
	CHOLO AG	1,64
	PARAMOS AG	1,62
	FRIOL AG	1,60
	XEITOSO AG	1,58
	XASTRE AG	1,57
	PISTÓN AG	1,48
	LITO T.E. AG	1,44
	GAYOSO AG	1,35
	CASEIRO AG	1,34
	CUBILLÓN AG	1,34
	PAVAROTI II TE AG	1,29

Calving ease:

CALVING EASE	COLON AG	98,69 %
	PADERNE AG	98,11 %
	XEITOSO AG	96,45 %
	PENEDO AG	96,22 %
	RUFINO AG	96,18 %
	GAYOSO AG	95,98 %
	AVISPADO AG	95,69 %
	VITOLO AG	95,5 %
	CUBILLÓN	95,42 %
	JUANITO AG	95,30 %
	PARAMOS AG	94,49 %
	FRIOL AG	92,89 %
	CASEIRO AG	91,75 %

AVERAGE WEIGHT AT BIRTH (kg)	MALE	FEMALE
	CASEIRO AG	39
	GAYOSO AG	41
	PADERNE AG	41
	XEITOSO AG	41
	COLON AG	42
	AVISPADO AG	43
	CUBILLÓN	43
	PENEDO AG	43
	RUFINO AG	43
	VITOLO AG	43
	PARAMOS AG	44
	FRIOL AG	46

AVERAGE WEIGHT AT WEANING (kg)	MALE	FEMALE
	VITOLO AG	326,98
	CUBILLÓN	326,27
	PARAMOS AG	321,05
	PENEDO AG	320,72
	AVISPADO AG	319,13
	XEITOSO AG	317,33
	PADERNE AG	316,64
	GAYOSO AG	316,55
	RUFINO AG	305,09
	COLÓN AG	299,43
	FRIOL AG	295,29
	CASEIRO AG	290,05

**ICV ■ INDICATED
FOR PURE BREED**

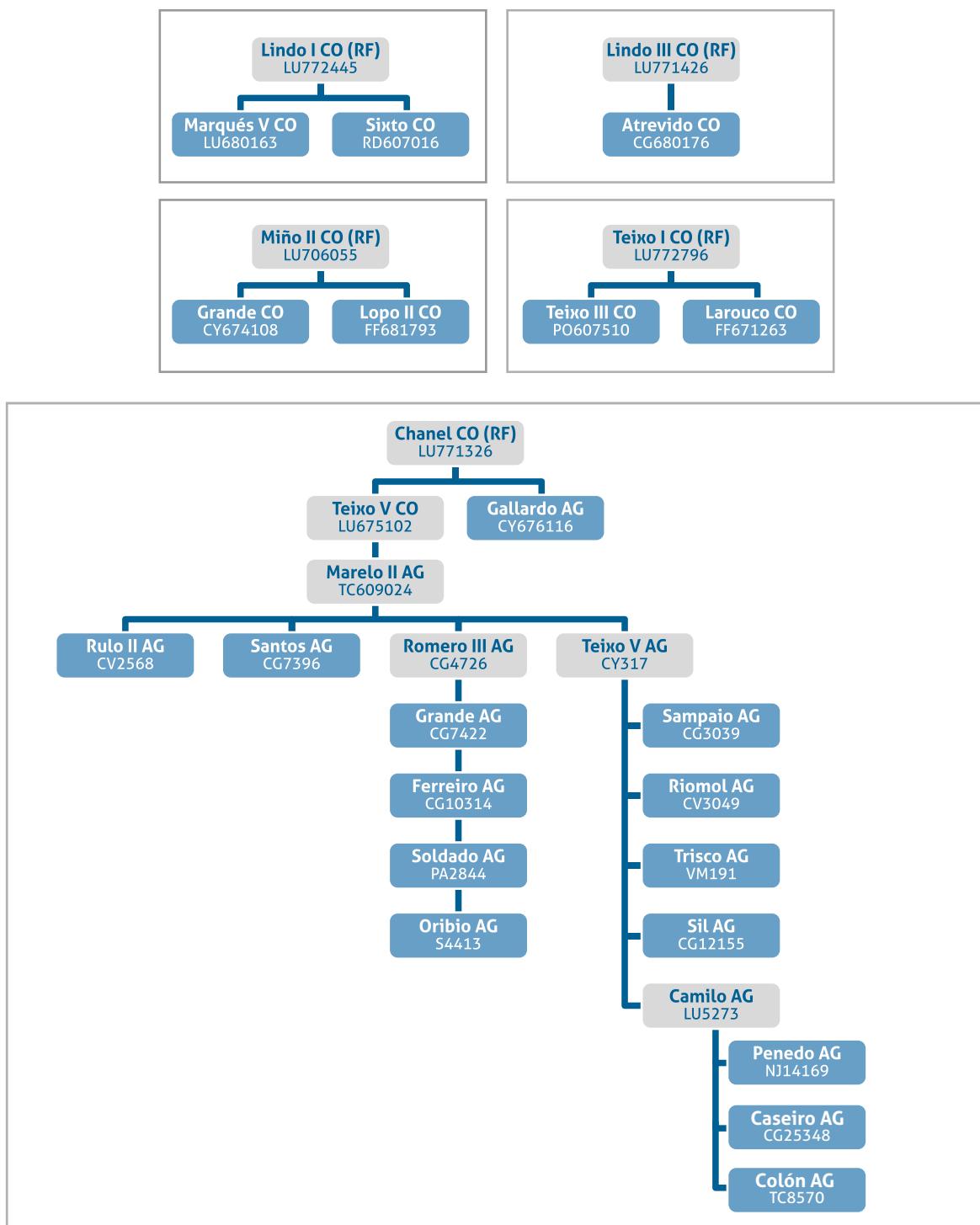
CASEIRO AG	111
PAVAROTTI II TE AG	108
CUBILLÓN AG	108
REGUEIRO AG	107
XEITOSO AG	107
LITO T.E. AG	105
RUFINO AG	103
NARCELO AG	102
GAYOSO AG	102
COLÓN AG	100
XASTRE AG	100
CHOLO AG	99
PENEDO AG	96
QUINTAIRO AG	96
PADERNE AG	92
FRIOL AG	92
PISTÓN AG	90
PARAMOS AG	90
VITOLO AG	83
ADRIÁN AG	82
AVISPADO AG	81
LUCAS AG	68
BREOGÁN AG	64

**ICC ■ INDICATED FORO
INDUSTRIAL CROSSING**

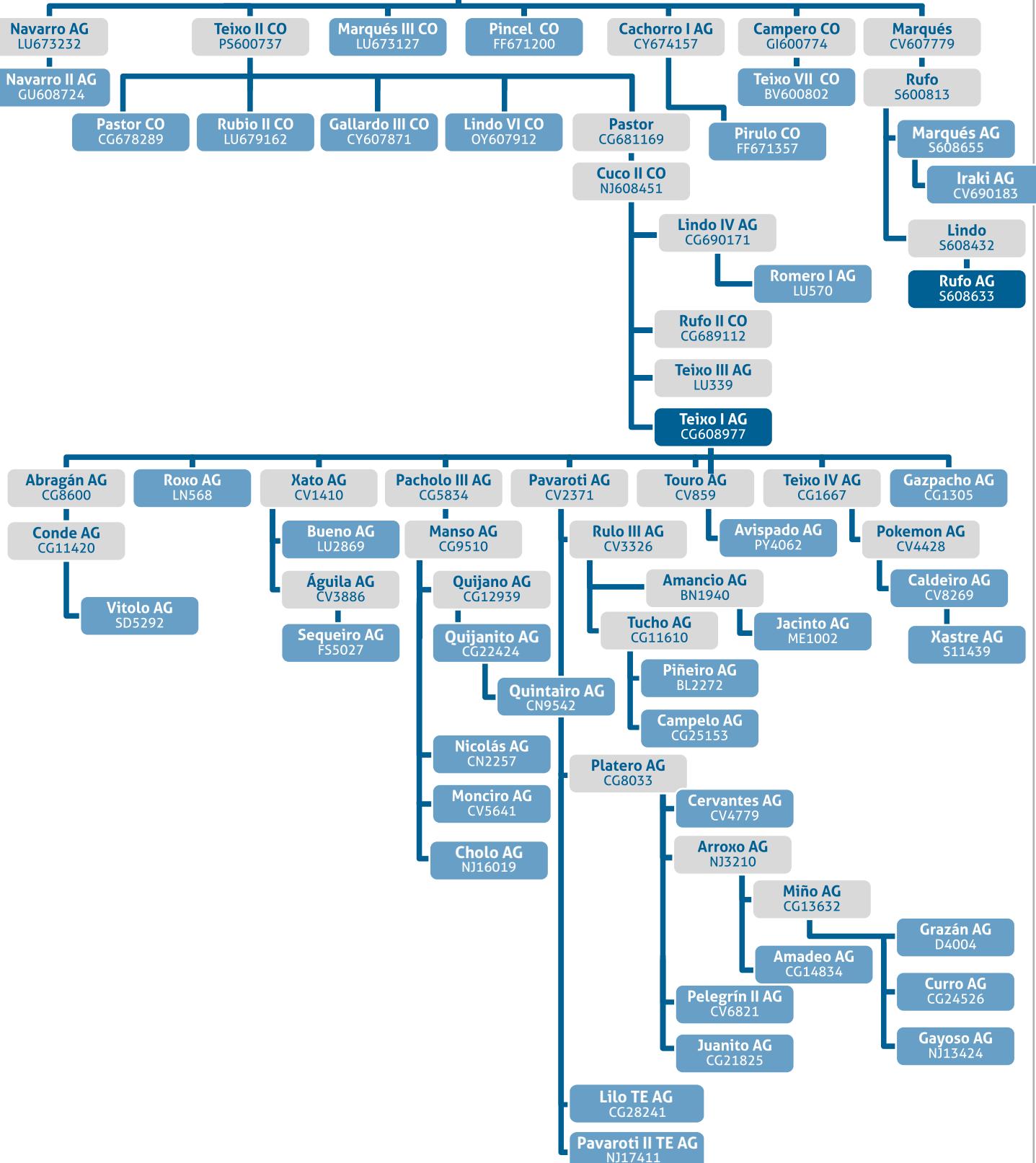
PARAMOS AG	133
GAYOSO AG	128
PADERNE AG	128
LUCAS AG	128
XEITOSO AG	126
AVISPADO AG	125
RUFINO AG	124
PENEDO AG	124
VITOLO AG	123
QUINTAIRO AG	122
CUBILLÓN AG	122
MARCELO AG	117
BREOGÁN AG	116
FRIOL AG	116
COLÓN AG	115
XASTRE AG	112
PISTÓN AG	111
ADRIÁN AG	110
CHOLO AG	108
REGUEIRO AG	102
CASEIRO AG	101
LITO T.E. AG	96
PAVAROTTI II TE AG	95



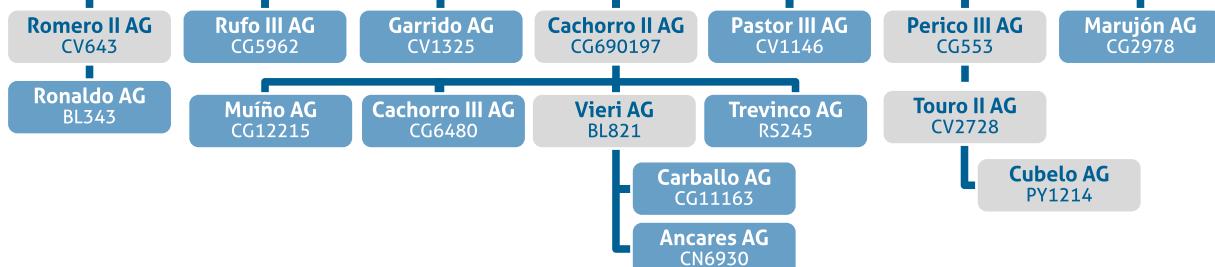
BULL GENEALOGIES RF-IA

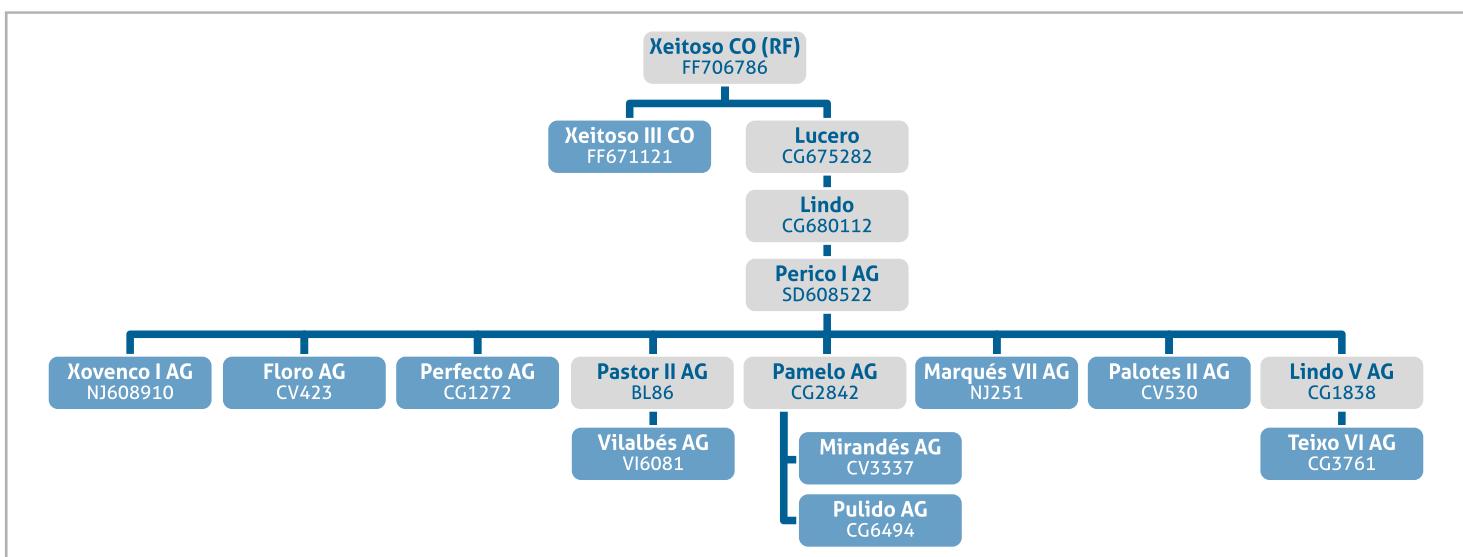
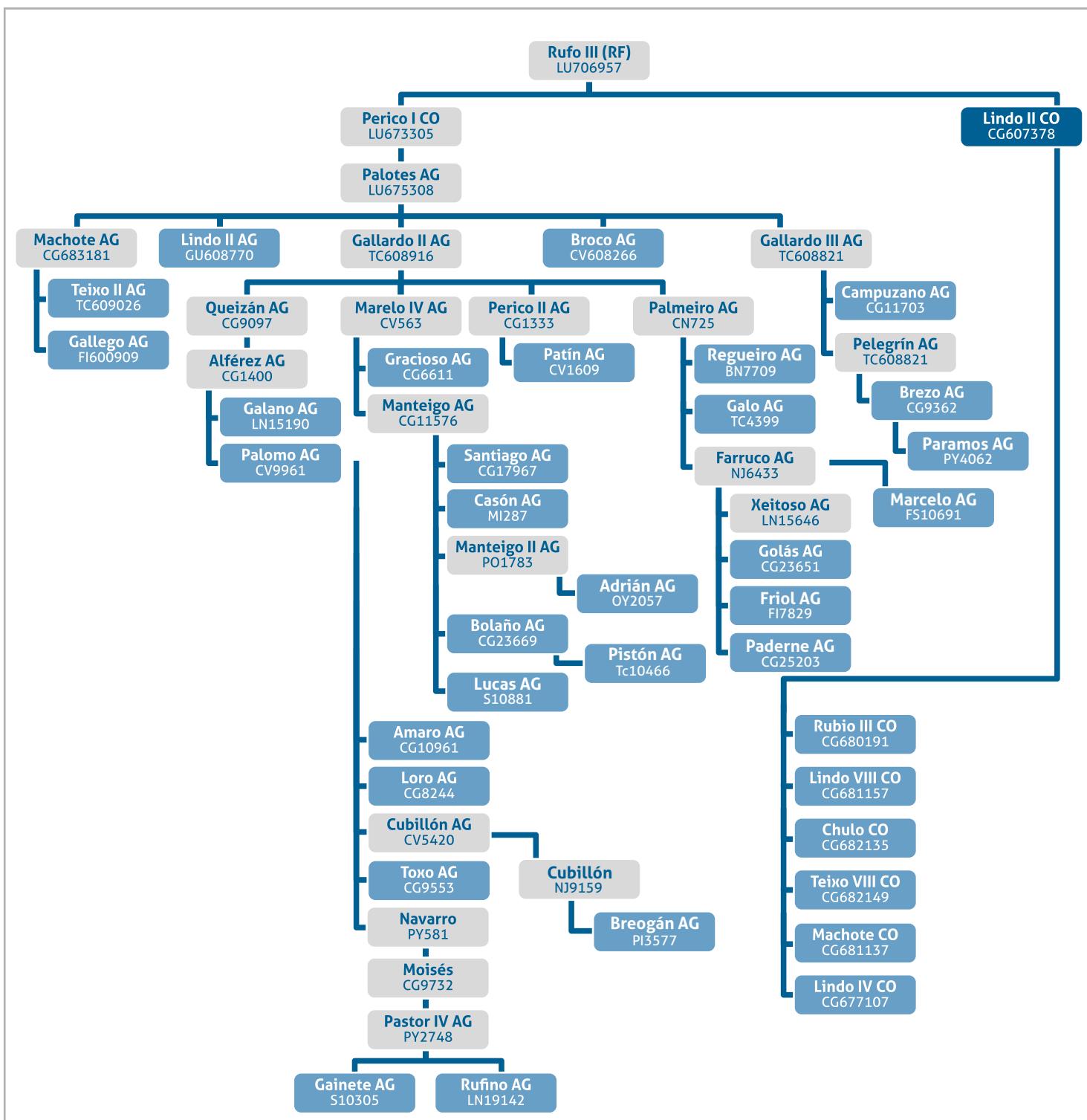


Marqués I CO (RF)
LU768975



Rufo AG
S608633







Sylvie Gouin

ALFEREZ AG



Sylvie Gouin

CAMILO AG

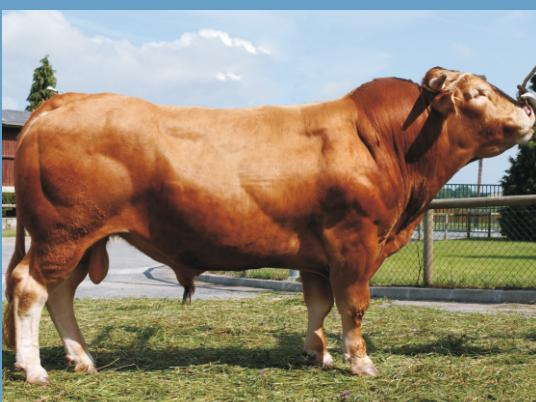


Sylvie Gouin

CONDE AG



PAVAROTTI AG



RULO III AG



Sylvie Gouin

SIL AG



TOXO AG



Sylvie Gouin

VIERI AG



RAZA RUBIA GALLEGA
STALLIONS CATALOGUE
2021

Asociación Nacional de Criadores
de Raza Rubia Gallega

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