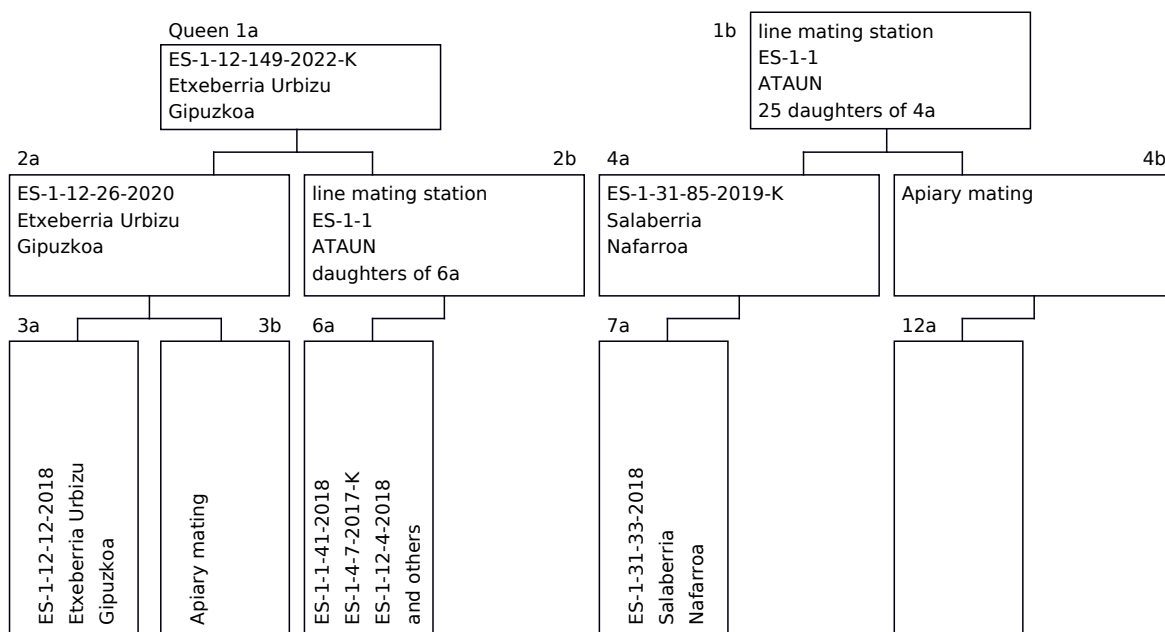


Tester of the queen: Zurutuza, Iñaki, Bizkaia, ES-1-13, Apiary 1
 Breeder of the queen: Etxeberria Urbizu, Jon, Gipuzkoa, ES-1-12
1a Studbook number: **ES-1-12-149-2022-K**

Race line: Sign: yellow
 Generation: Hatch date:

Daughters of Queen: 0.0%
 Workers: 0.0%

A. Pedigree



B. Own performance

Performance test year	No. of the colony			comparable colonies at the apiary		
	kg	%	Ranking	number	Yield average kg	
	22	217.3	1	8	10.1	
	Assessment*	Breeding values			Reliability	
Total breeding value¹	-	112	■			
Honey yield	-	113	■			0.19
Defensive behavior	3.63	106	■			0.58
Steadiness on comb	3.63	108	■			0.73
Swarming drive	4	110	■			0.37
Varroa	-	92	■			
Performance index	-	0				
Robustness in winter			70%	100%	170%	
Development in Spring						
Colony strength						

¹In accordance with the resolution of the breeder convention of 9th April 2011, for the total breeding value, Varroa tolerance is weighted by 40% and honey yield, gentleness, calmness during inspection, and swarming tendency are each weighted by 15%.

C. Performance of the sisters

See page 2

D. Body features, see appendix

none Analysis of race characteristics

E. Results

Class A

Suitable for breeding with no restrictions; suitable for use as a 4a colony at frequently visited mating stations (all customary breeding values over 100).

Breeding selection report ES-1-12-149-2022-K

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Performance of the sisters

Amount of checked sisters: 18

Studbook number	Tester of the queen	Apiary	Total breeding value	Yield kg	Breeding Value Honey	Defensive behavior	Breeding Value Defensive	Calmness during inspection	Breeding Value Calmness	Swarming drive	Breeding Value Swarming	Varroa-index	Performance index
ES-1-12-145-2022	ES-1-3	1	104		105		Behavior		drive		drive	95	
ES-1-12-146-2022**	ES-1-3	1	106		(106)		(102)		inspection (104)		(109)	(95)	
ES-1-12-150-2022	ES-1-6	1	101		100		98		102		111	90	
ES-1-12-151-2022	ES-1-6	1	97		110		91		102		111	80	
ES-1-12-152-2022	ES-1-6	1	110		104		105		111		111	95	
ES-1-12-153-2022-K	ES-1-6	1	122		117		113		114		107	104	
ES-1-12-140-2022	ES-1-10	1	105		106		100		104		108	94*	
ES-1-12-141-2022	ES-1-10	1	107		106		103		104		110	95	
ES-1-12-147-2022**	ES-1-13	1	106		(106)		(102)		(104)		(109)	(95)	
ES-1-12-148-2022	ES-1-13	1	108	0	96	3.6	104	3.6	112	4	111	98	
ES-1-12-149-2022-K	ES-1-13	1	112	22	113	3.6	106	3.6	108	4	110	92	
ES-1-12-154-2022	ES-1-13	1	109	12	107	3.9	108	3.3	99	4	111	98	
ES-1-12-155-2022**	ES-1-13	1	106		(106)		(102)		(104)		(109)	(95)	
ES-1-12-137-2022-K	ES-1-19	1	107		111		98		105		114	91	
ES-1-12-138-2022	ES-1-19	1	114		102		103		114		111	106	
ES-1-12-139-2022-K	ES-1-19	1	105		104		95		91		111	112	
ES-1-12-156-2022**	ES-1-30	1	106		(106)		(102)		(104)		(109)	(95)	
ES-1-12-157-2022	ES-1-30	1	105		107		104		100		109	92	

Only one Varroa trait was recorded

Colony without performance tests