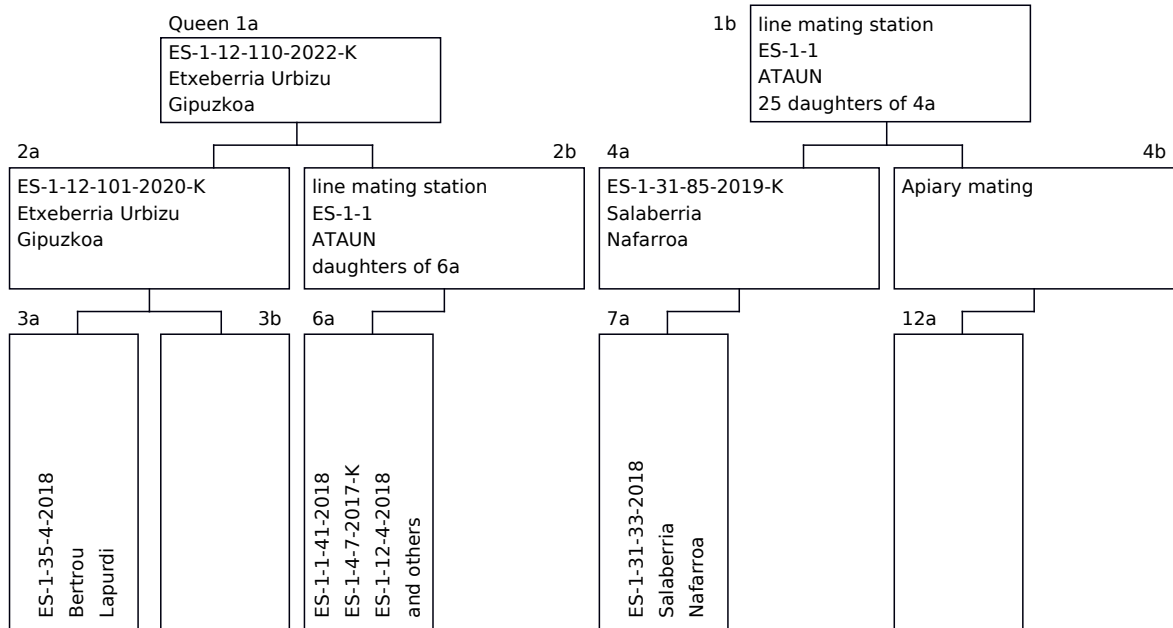


Tester of the queen: Otegi, Aitor, Gipuzkoa, ES-1-19, Apiary 1  
 Breeder of the queen: Etxeberria Urbizu, Jon, Gipuzkoa, ES-1-12  
**1a** Studbook number: **ES-1-12-110-2022-K**

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
	35	149.7	1	8	23.4
	Assessment*	Breeding values			Reliability
<b>Total breeding value<sup>1</sup></b>	-	107			
Honey yield	-	114			0.16
Defensive behavior	2.80	101			0.52
Steadiness on comb	3	107			0.7
Swarming drive	4	103			0.35
Varroa	-	92			
Performance index	-	0			
Robustness in winter			70% 100% 170%		
Development in Spring					
Colony strength					

<sup>1</sup>In 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 B**  
 Suitable for breeding.

# Breeding selection report ES-1-12-110-2022-K

## Page 2

### Performance of the sisters

Amount of checked sisters: 26

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-1-12-113-2022**	ES-1-3	1	98		(102)		Major		(99)		(105)	(95)	
ES-1-12-114-2022**	ES-1-3	1	98		(102)		(97)		inspection (99)		(103)	(95)	
ES-1-12-118-2022	ES-1-6	1	81		92		94		83		91	91	
ES-1-12-119-2022	ES-1-6	1	105		(102)		101		108		105	(95)	
ES-1-12-111-2022**	ES-1-10	1	98		(102)		(97)		(99)		(103)	(95)	
ES-1-12-112-2022**	ES-1-10	1	98		(102)		(97)		(99)		(103)	(95)	
ES-1-12-115-2022	ES-1-13	1	95		102		87		97		105	97	
ES-1-12-116-2022	ES-1-13	1	97		96		95		105		105	90	
ES-1-12-117-2022**	ES-1-13	1	98		(102)		(97)		(99)		(103)	(95)	
ES-1-12-120-2022**	ES-1-13	1	98		(102)		(97)		(99)		(103)	(95)	
ES-1-12-121-2022	ES-1-13	1	94		106		91		85		105	98	
ES-1-12-19-2022	ES-1-14	1	96		(102)		101		98		92	(95)	
ES-1-12-20-2022	ES-1-14	1	92		98		95		94		97	97*	
ES-1-12-21-2022	ES-1-14	1	92		97		91		90		106	97*	
ES-1-12-22-2022**	ES-1-14	1	98		(102)		(97)		(99)		(103)	(95)	
ES-1-12-107-2022	ES-1-19	1	100	27	104	3	101	2.7	96	4	105	95	
ES-1-12-108-2022	ES-1-19	1	88	18	102	2.5	90	2.3	88	1	91	100*	
ES-1-12-109-2022	ES-1-19	1	98	22	101	2.8	97	3.3	108	4	105	83	
ES-1-12-110-2022-K	ES-1-19	1	107	35	114	2.8	101	3	107	4	103	92	
ES-1-12-124-2022**	ES-1-25	1	98		(102)		(97)		(99)		(103)	(95)	
ES-1-12-125-2022**	ES-1-25	1	98		(102)		(97)		(99)		(103)	(95)	
ES-1-12-126-2022**	ES-1-25	1	98		(102)		(97)		(99)		(103)	(95)	
ES-1-12-122-2022	ES-1-30	1	90		98		97		98		103	79	
ES-1-12-123-2022	ES-1-30	1	105		103		105		98		103	105	
ES-1-12-23-2022**	ES-1-47	1	98		(102)		(97)		(99)		(103)	(95)	
ES-1-12-24-2022**	ES-1-47	1	98		(102)		(97)		(99)		(103)	(95)	

Only one Varroa trait was recorded

Colony without performance tests