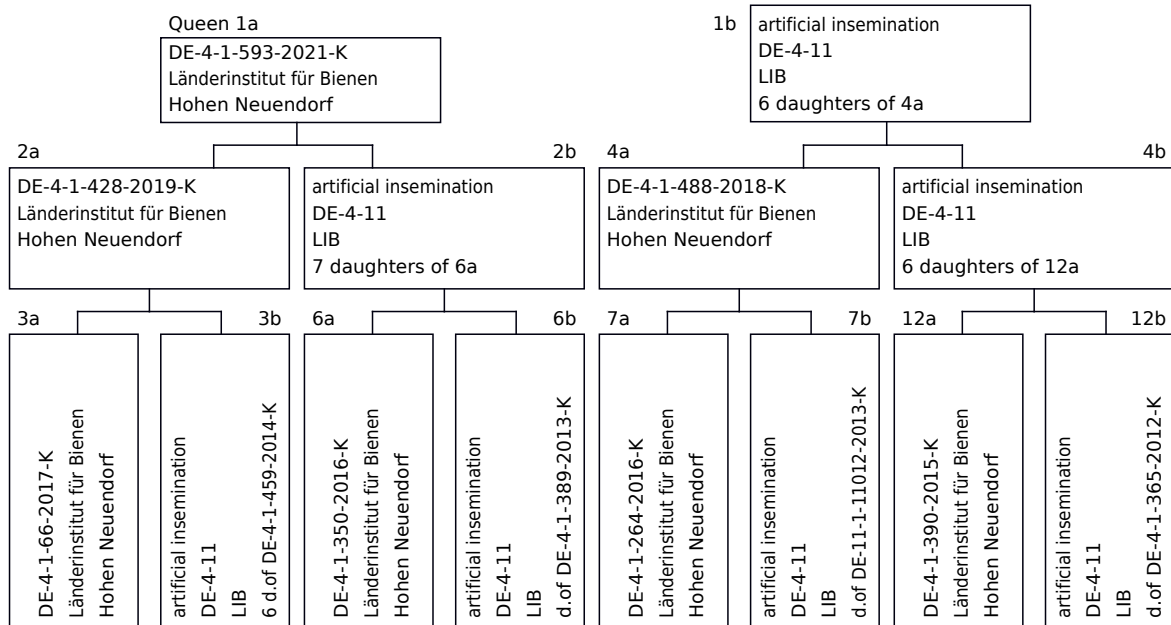


Tester of the queen: Länderinstitut für Bienenkunde, 16540 Hohen Neuendorf, DE-4-1, Apiary 1
 Breeder of the queen: Länderinstitut für Bienenkunde, 16540 Hohen Neuendorf, DE-4-1
1a Studbook number: **DE-4-1-593-2021-K**

Race line: -33 Sign: white 93 Daughters of Queen: 6.1%
 Generation: Hatch date: 05.07.2021 Workers: 6.6%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 532			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	52.1	119.3	9	29	43.7
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	104			
Honey yield	-	108			0.46
Defensive behavior	3.60	95			0.56
Steadiness on comb	3.40	96			0.56
Swarming drive	4	111			0.5
Varroa	-	102			0.52
Performance index	-	103			0.46
Robustness in winter	3.10		70%	100%	170%
Development in Spring	3.30				
Colony strength	3.60				

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

See attached characteristic documents:

E. Results

Class B
Suitable for breeding.

Breeding selection report DE-4-1-593-2021-K

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Performance of the sisters

Amount of checked sisters: 11

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 ndex
DE-4-1-586-2021	DE-4-1	1	103	56.5	109	3.2	Behavior	2.9	96	4	111	104	99
DE-4-1-587-2021-K	DE-4-1	1	103	51.2	108	3.6	96	3.6	96	4	111	99	104
DE-4-1-593-2021-K	DE-4-1	1	104	52.1	108	3.6	95	3.4	96	4	111	102	103
DE-4-1-602-2021	DE-4-1	1	103	53	109	3.2	92	3.4	94	4	110	103	102
DE-4-1-631-2021	DE-4-1	1	106	50.6	108	3.3	94	3.6	97	4	111	106	103
DE-4-1-585-2021	DE-4-1	2	102	45.1	107	3.7	95	3.4	96	4	112	98	103
DE-4-1-588-2021	DE-4-1	2	103	49	109	3.6	93	3.2	94	4	111	102	102
DE-4-1-589-2021-K	DE-4-1	2	105	50.2	110	3.5	95	3.7	98	4	112	104	104
DE-4-1-590-2021	DE-4-1	2	105	50.6	109	3.4	90	2.9	91	4	111	108	100
DE-4-1-594-2021-K	DE-4-1	2	105	41	106	3.7	95	3.3	96	4	112	106	102
DE-4-1-597-2021	DE-4-1	2	104	44.9	107	3.4	91	3	92	4	111	107	100