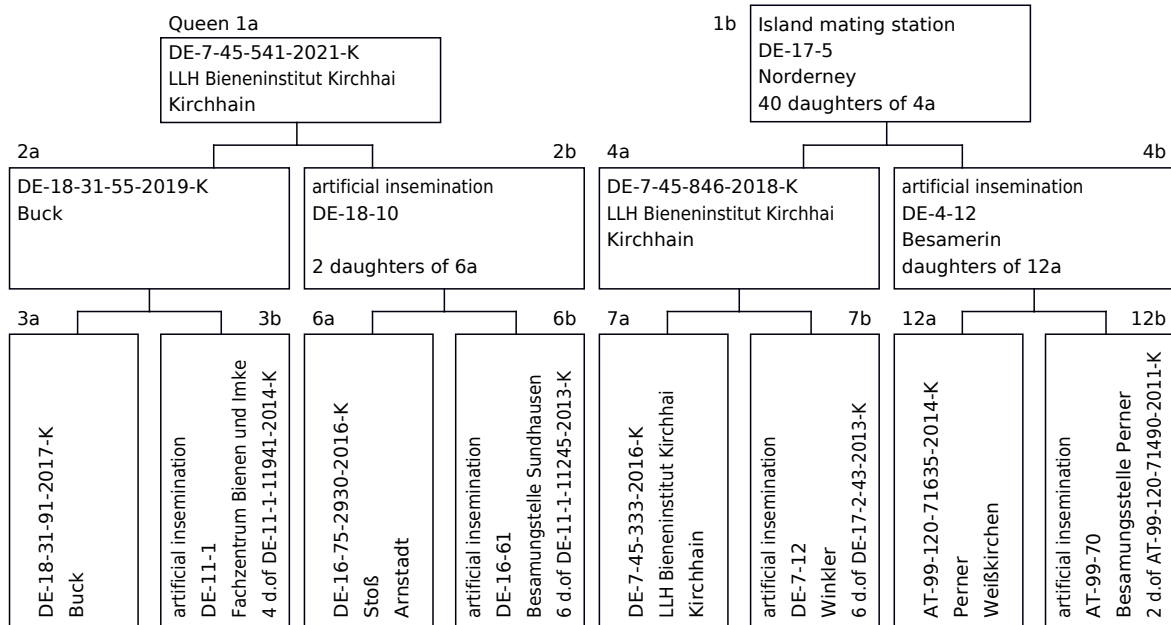


Tester of the queen: LLH Bieneninstitut Kirchhain, 35274 Kirchhain, DE-7-45, Apiary 4
 Breeder of the queen: LLH Bieneninstitut Kirchhain, 35274 Kirchhain, DE-7-45
1a Studbook number: **DE-7-45-541-2021-K**

Race line: -Carnica Sign: white 24-9 Daughters of Queen: 4.7%
 Generation: 1 Hatch date: 07.06.2021 Workers: 1.5%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 405			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	38	112.4	12	20	33.8
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	125			
Honey yield	-	120			0.48
Defensive behavior	3	125			0.57
Steadiness on comb	2.80	123			0.57
Swarming drive	4	115			0.53
Varroa	-	118			0.54
Performance index	-	124			0.48
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 Av

Selected for Varroa tolerance. Suitable for breeding with no restrictions; suitable for use as a 4a colony at frequently visited mating stations.

Breeding selection report DE-7-45-541-2021-K

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Performance of the sisters

Amount of checked sisters: 6

Studbook number	Tester of the queen	Apiary	Total breeding value	Yield kg	Breeding Value Honey	Defensive behavior	Breeding Value Defensive Behavior	Calmness during inspection	Breeding Value Calmness	Swarming drive	Breeding Value Swarming	Varroa-index	Performance index
DE-7-45-577-2021	AT-99-711	1	126		120		120		120		120	126	120
DE-7-45-578-2021	AT-99-711	1	124		122		117		117		107	123	118
DE-7-45-560-2021-K	DE-2-147	1	124		123		125		124		109	(116)	123
DE-7-45-542-2021	DE-7-45	3	123	61.8	119	3.1	123	2.7	121	3	108	118	120
DE-7-45-541-2021-K	DE-7-45	4	125	38	120	3	125	2.8	123	4	115	118	124
DE-7-45-384-2021	DE-7-197	1	122		119		121		120		107	118	119