



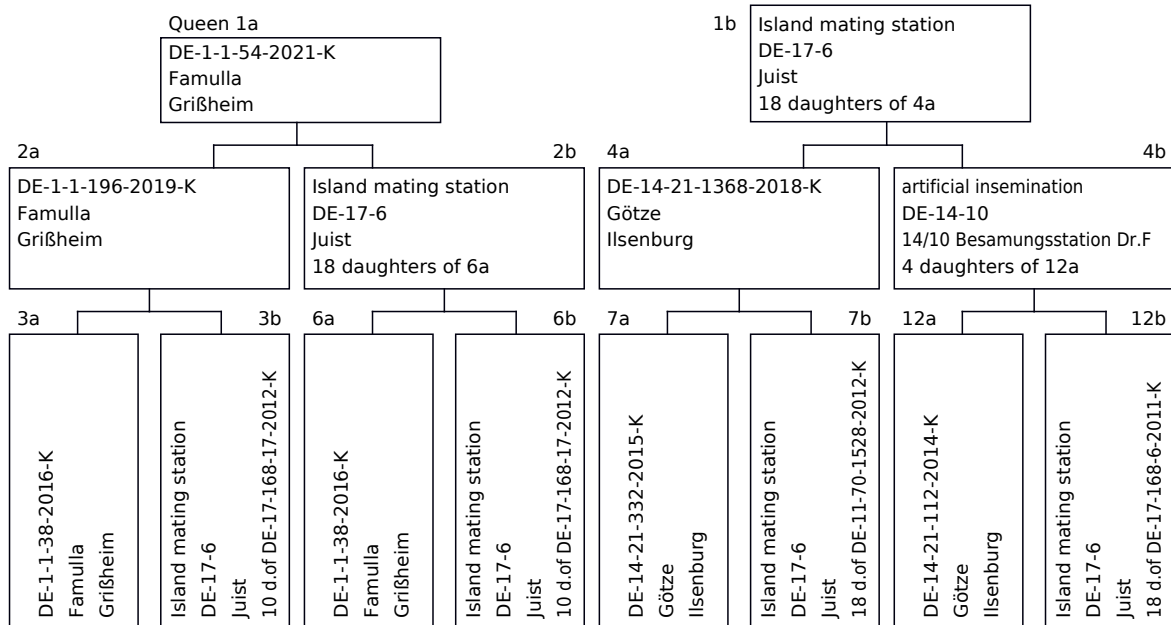
Tester of the queen: Famulla, Leo, 79395 Grißheim, DE-1-1, Apiary 1
 Breeder of the queen: Famulla, Leo, 79395 Grißheim, DE-1-1
1a Studbook number: **DE-1-1-54-2021-K**

Race line: -14
 Generation: 15

Sign: white
 Hatch date: 06.06.2021

Daughters of
 Queen: 23.1%
 Workers: 5.5%

A. Pedigree



B. Own performance

Performance test year	No. of the colony			comparable colonies at the apiary		
	kg	%	Ranking	number	Yield average kg	
	37.8	100.6	7	11	37.6	
	Assessment*		Breeding values			Reliability
Total breeding value¹	-	111				
Honey yield	-	111				0.52
Defensive behavior	4	114				0.6
Steadiness on comb	4	111				0.6
Swarming drive	4	106				0.55
Varroa	-	106				0.57
Performance index	-	112				0.52
Robustness in winter	3.80		70%	100%	170%	
Development in Spring	3.80					
Colony strength	3.80					

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 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-1-1-54-2021-K

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Performance of the sisters

Amount of checked sisters: 22

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-1-1-49-2021-K	DE-1-1	1	112	39.6	112	4	112	4	112	4	112	107	112
DE-1-1-50-2021-K	DE-1-1	1	113	37.8	111	4	114	4	111	4	106	110	112
DE-1-1-51-2021-K	DE-1-1	1	114	46.8	116	4	113	4	110	4	106	111	113
DE-1-1-53-2021-K	DE-1-1	1	112	39.6	112	4	114	4	111	4	106	108	112
DE-1-1-54-2021-K	DE-1-1	1	111	37.8	111	4	114	4	111	4	106	106	112
DE-1-1-55-2021	DE-1-1	1	111	30.6	107	4	115	4	111	4	106	107	111
DE-1-1-511-2021	DE-1-12	1	113		110		115		112		106	109	112
DE-1-12-512-2021	DE-1-12	1	112		112		115		111		106	106	113
DE-1-12-513-2021	DE-1-12	1	112		109		114		111		105	108	111
DE-1-12-514-2021	DE-1-12	1	114		112		115		111		106	110	113
DE-1-12-515-2021	DE-1-12	1	112		113		112		109		105	107	111
DE-19-201-22-2021	DE-1-53	1	110		110		112		109		105	105	111
DE-19-201-24-2021	DE-19-201	2	112		113		115		110		106	107	113
DE-19-201-25-2021	DE-19-201	2	110		107		113		106		104	108	109
DE-19-201-28-2021	DE-19-201	2	115		110		118		115		107	110	114
DE-19-201-29-2021-K	DE-19-201	2	117		119		117		114		108	110	117
DE-19-201-36-2021	DE-19-201	2	115		114		116		112		107	110	114
DE-19-201-37-2021	DE-19-201	2	112		108		114		110		105	109	110
DE-19-201-38-2021	DE-19-201	2	116		111		118		115		107	111	115
DE-19-201-39-2021	DE-19-201	2	114		112		117		113		107	109	114
DE-19-201-40-2021	DE-19-201	2	112		111		114		113		106	106	113
DE-19-201-41-2021	DE-19-201	2	115		111		118		115		107	109	115