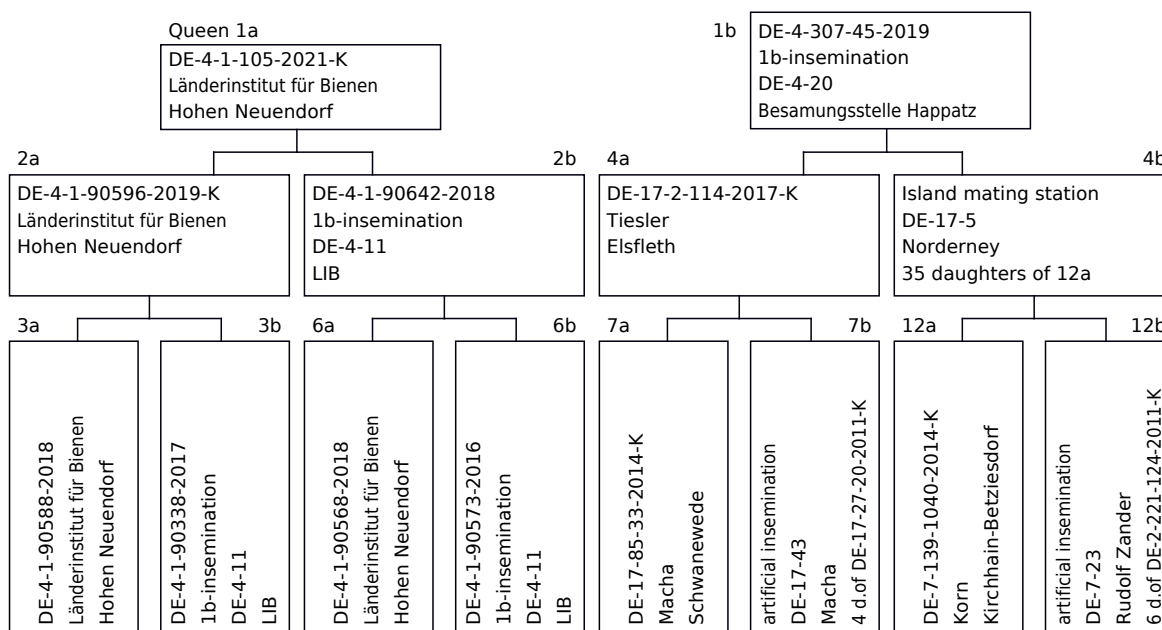


Tester of the queen: Breuninger, Hans Jörg, 03197 Jänschwalde, DE-4-306, Apiary 5
 Breeder of the queen: Länderinstitut für Bienenkunde, 16540 Hohen Neuendorf, DE-4-1
1a Studbook number: **DE-4-1-105-2021-K**

Race line: -90 Sign: white 5 Daughters of Queen: 15.6%
 Generation: Hatch date: 31.05.2021 Workers: 1.3%

A. Pedigree



B. Own performance

Performance test year	No. of the colony			comparable colonies at the apiary		
	kg	%	Ranking	number	Yield average kg	
	51	80.6	2	4	63.3	
	Assessment*	Breeding values			Reliability	
Total breeding value¹	-	119				
Honey yield	-	111				0.52
Defensive behavior	3.50	104				0.65
Steadiness on comb	4	101				0.66
Swarming drive	4	115				0.59
Varroa	-	126				0.61
Performance index	-	109				0.52
Robustness in winter			70%	100%	170%	
Development in Spring	3					
Colony strength	4					

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-4-1-105-2021-K

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Performance of the sisters

Amount of checked sisters: 3

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-4-1-105-2021-K	DE-4-306	5	119	51	111	3.5	104	4	101	4	115	126	109
DE-4-1-103-2021	DE-4-307	3	113		109		94		inspection 90		110	123	101
DE-4-1-104-2021-K	DE-4-307	3	116		112		100		93		111	125	105