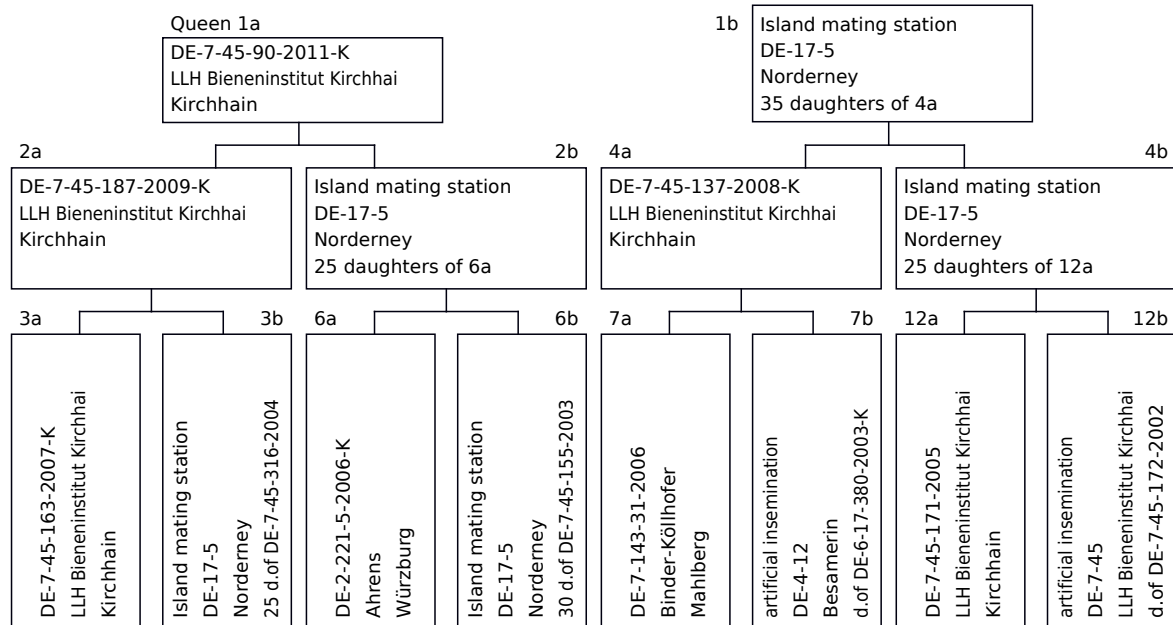


Tester of the queen: LLH Bieneninstitut Kirchhain, 35274 Kirchhain, DE-7-45, Apiary 1
 Breeder of the queen: LLH Bieneninstitut Kirchhain, 35274 Kirchhain, DE-7-45
1a Studbook number: **DE-7-45-90-2011-K**

Race line: -1 Sign: white 44- Daughters of Queen: 1.1%
 Generation: 3 Hatch date: 23.05.2011 Workers: 0.8%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 58			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	20.4	125.7	8	20	16.2
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	128			
Honey yield	-	115			0.44
Defensive behavior	2.90	106			0.65
Steadiness on comb	2.70	102			0.67
Swarming drive	4	123			0.44
Varroa	-	136			0.55
Performance index	-	0			
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-7-45-90-2011-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 Behavior	Calmness during inspection	Breeding Value Calmness	Swarming drive	Breeding Value Swarming	Varroa-index	Performance index
DE-7-45-153-2011	AT-99-667	1	119		113		102		102		123	124	
DE-7-45-152-2011	AT-99-679	3	122		113		105		105		110	130	
DE-7-45-764-2011	DE-6-52	3	110		108		95		94		109	117	
DE-7-45-90-2011-K	DE-7-45	1	128	20.4	115	2.9	106	2.7	102	4	123	136	
DE-7-45-763-2011	DE-7-45	1	109	23.6	113	2.5	95	2.4	95	3	108	113	
DE-7-45-93-2011-K	DE-7-45	4	119	48.1	118	2.7	101	2.5	100	4	119	122	
DE-7-45-94-2011	DE-7-161	1	117		111		106		105		117	118	
DE-7-45-100-2011	DE-7-161	1	116		115		98		97		115	121	
DE-7-45-95-2011	DE-7-172	1	123		116		108		107		126	122	
DE-7-45-98-2011	DE-7-172	1	119		113		109		109		127	114	
DE-7-45-761-2011	DE-18-43	1	106		102		99		98		105	(110)	