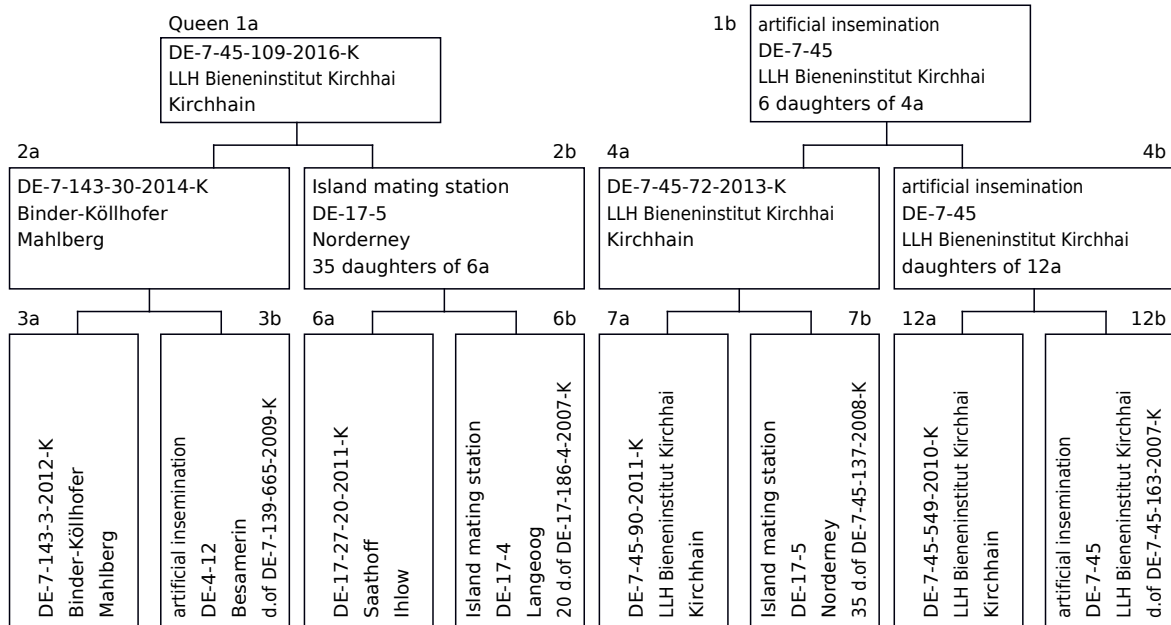


Tester of the queen: LLH Bieneninstitut Kirchhain, 35274 Kirchhain, DE-7-45, Apiary 4
 Breeder of the queen: LLH Bieneninstitut Kirchhain, 35274 Kirchhain, DE-7-45
1a Studbook number: **DE-7-45-109-2016-K**

Race line: -1 Sign: white 65- Daughters of Queen: 1.5%
 Generation: 1 Hatch date: 23.05.2016 Workers: 2.3%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 393			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	70.8	120.4	6	18	58.8
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	118	[Bar chart]		
Honey yield	-	119	[Bar chart]		
Defensive behavior	2.40	91	[Bar chart]		
Steadiness on comb	2.40	96	[Bar chart]		
Swarming drive	2.00	91	[Bar chart]		
Varroa	-	138	[Bar chart]		
Performance index	-	0	[Bar chart]		
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

See attached characteristic documents:

E. Results

Class P

Use only for test breeding. The offspring of these colonies should not circulate among other bees.

Breeding selection report DE-7-45-109-2016-K

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Performance of the sisters

Amount of checked sisters: 2

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-7-45-106-2016	DE-7-45	1	121	34.5	100	2.4	100	2.3	100	4.0	100	137	
DE-7-45-109-2016	DE-7-45	4	118	70.8	119	2.4	91	2.4	96	2.0	91	138	