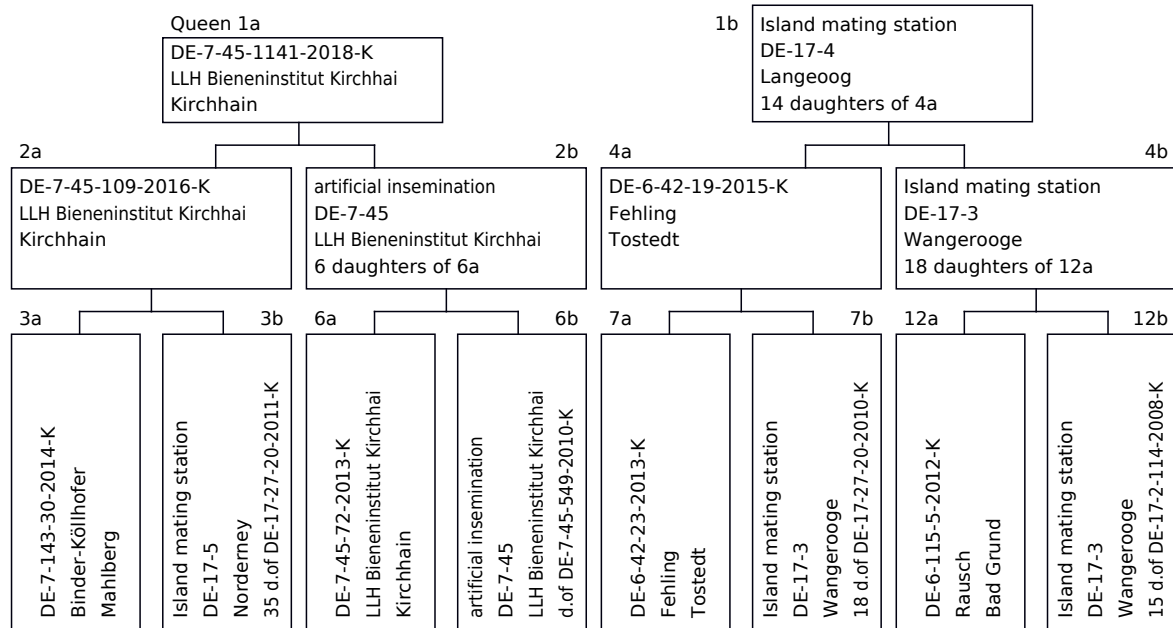


Tester of the queen: Holtkamp, Helmut, 26847 Deternerlehe, DE-17-208, Apiary 1  
Breeder of the queen: LLH Bieneninstitut Kirchhai, 35274 Kirchhai, DE-7-45  
**1a** Studbook number: **DE-7-45-1141-2018-K**

Race line: -71 Sign: red 72 Daughters of Queen: 2.2%  
Generation: 1 Hatch date: 10.07.2018 Workers: 2.5%

### A. Pedigree



### B. Own performance

Performance test year	No. of the colony 175			comparable colonies at the apiary		
	kg	%	Ranking	number	Yield average kg	
	45.5	359.7	1	10	12.7	
	Assessment*	Breeding values			Reliability	
<b>Total breeding value<sup>1</sup></b>	-	123	[Bar chart]			
Honey yield	-	106	[Bar chart]			0.4
Defensive behavior	3.50	125	[Bar chart]			0.52
Steadiness on comb	4	127	[Bar chart]			0.52
Swarming drive	4	117	[Bar chart]			0.41
Varroa	-	115	[Bar chart]			0.27
Performance index	-	121	[Bar chart]			0.46
Robustness in winter	3.50	70% 100% 170%				
Development in Spring	3.50					
Colony strength	4					

<sup>1</sup>In 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-7-45-1141-2018-K

## Page 2

### Performance of the sisters

Amount of checked sisters: 8

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 ndex
DE-7-45-1136-2018	DE-17-208	1	109	12.1	93	3	Behavior	2	109	3	109	108	105
DE-7-45-1137-2018	DE-17-208	1	103	6	91	2	102	2	101	2	104	104	99
DE-7-45-1138-2018	DE-17-208	1	105	5	90	2	102	2	102	3	109	105	100
DE-7-45-1140-2018	DE-17-208	1	104	6	91	2	102	2	102	3	109	104	100
DE-7-45-1141-2018-K	DE-17-208	1	123	45.5	106	3.5	125	4	127	4	117	115	121
DE-7-45-1131-2018	DE-17-208	11	101	6	90	2	98	2	97	2	102	104	96
DE-7-45-1133-2018	DE-17-208	11	110	23.8	96	3	112	3	111	4	114	106	109
DE-7-45-1134-2018	DE-17-208	11	103	5	90	2	98	2	97	3	108	106	97