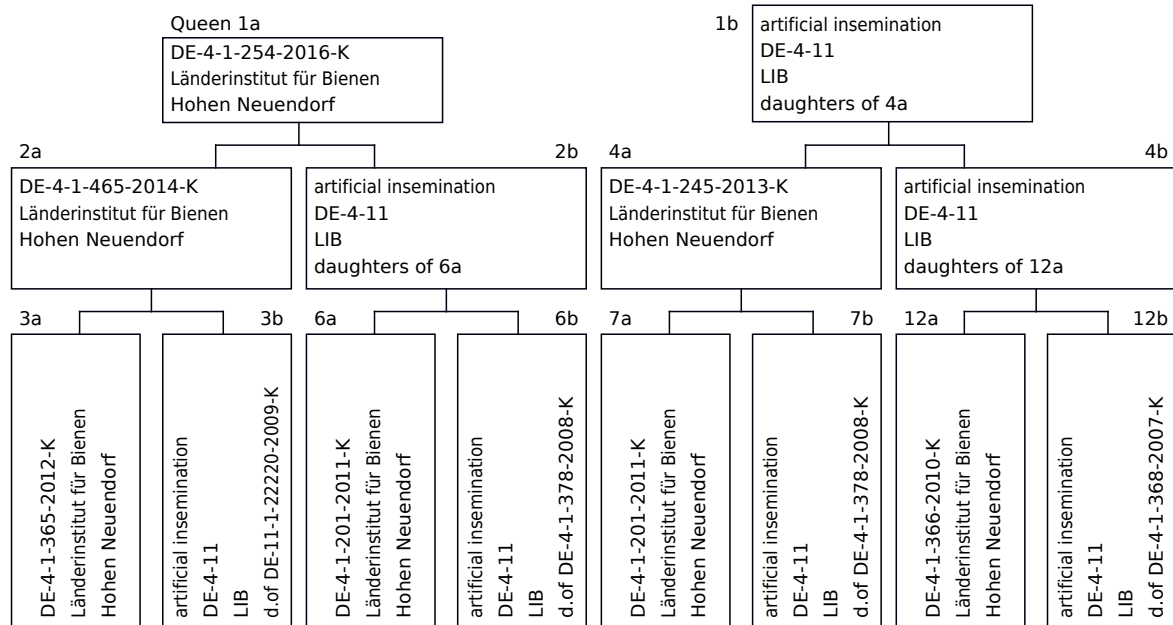


Tester of the queen: Länderinstitut für Bienenkunde, 16540 Hohen Neuendorf, DE-4-1, Apiary 3
 Breeder of the queen: Länderinstitut für Bienenkunde, 16540 Hohen Neuendorf, DE-4-1
1a Studbook number: **DE-4-1-254-2016-K**

Race line: -33 Sign: white 54 Daughters of Queen: 2.7%
 Generation: Hatch date: 15.6.2016 Workers: 11.9%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 32			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	35.2	144.3	6	31	24.4
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	114			
Honey yield	-	106			0.48
Defensive behavior	3.40	117			0.67
Steadiness on comb	3.10	117			0.67
Swarming drive	4	104			0.45
Varroa	-	109			0.37
Performance index	-	0			
Robustness in winter	3		70%	100%	170%
Development in Spring	3.30				
Colony strength	3.50				

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-4-1-254-2016-K

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Performance of the sisters

Amount of checked sisters: 14

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-4-1-240-2016	DE-4-1	1	107	18	98	3.2	107	3.0	107	4.0	107	107	
DE-4-1-241-2016	DE-4-1	1	101	13	94	2.9	95	2.8	97	4.0	100	108	
DE-4-1-248-2016-K	DE-4-1	1	106	22.6	101	3.1	105	3.1	107	4.0	102	106	
DE-4-1-249-2016	DE-4-1	1	100	16.2	97	3.1	102	2.9	103	4.0	101	98	
DE-4-1-234-2016	DE-4-1	2	106	35.7	105	3.4	101	3	102	4	101	109	
DE-4-1-235-2016	DE-4-1	2	98	7.1	83	3.3	103	3.1	105	4	99	100	
DE-4-1-236-2016	DE-4-1	2	102	34.3	104	3.2	97	3.1	100	4	100	103	
DE-4-1-238-2016	DE-4-1	2	99	40.9	109	3.2	92	2.8	93	4	100	101	
DE-4-1-252-2016	DE-4-1	3	116	30.8	103	3.5	124	3.3	125	4	105	106	
DE-4-1-254-2016-K	DE-4-1	3	114	35.2	106	3.4	117	3.1	117	4	104	109	
DE-4-1-255-2016	DE-4-1	3	97	15.4	94	2.8	90	2.6	92	4	98	107	
DE-4-1-258-2016	DE-4-1	3	105	27.7	102	2.9	98	2.9	101	4	100	110	
DE-4-1-200-2016	DE-4-54	1	101		89		100		100		104	(104)	
DE-4-1-230-2016	DE-4-54	1	100		105		100		104		83	(104)	