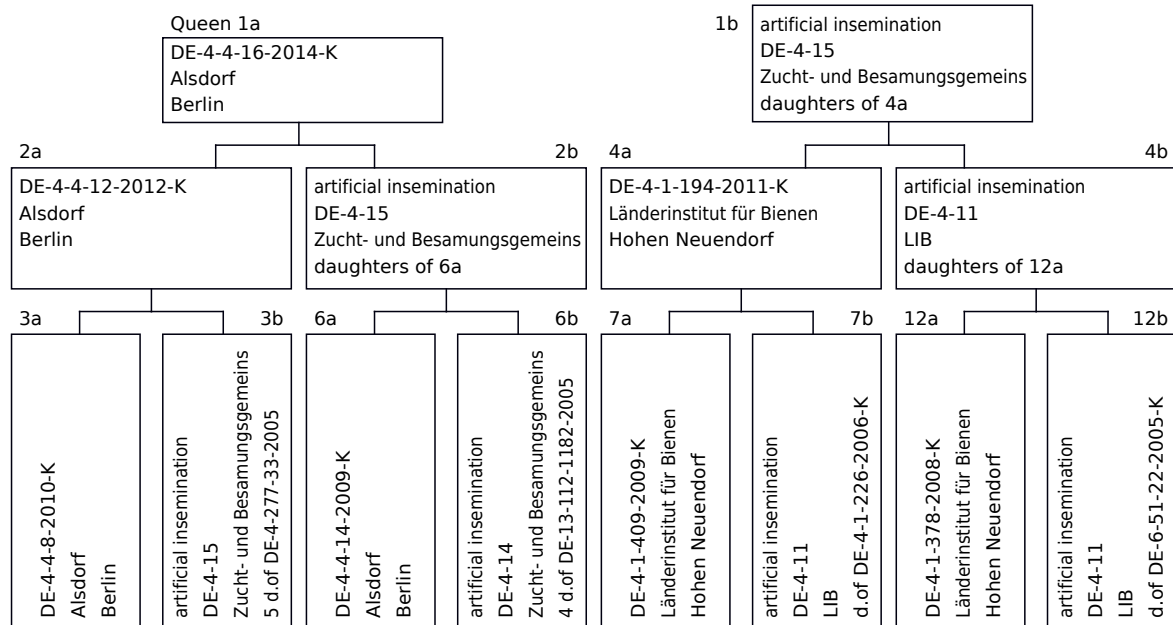


Tester of the queen: Alsdorf, Bernhard, 12489 Berlin, DE-3-4, Apiary 1
 Breeder of the queen: Alsdorf, Bernhard, Berlin, DE-4-4
1a Studbook number: **DE-4-4-16-2014-K**

Race line: -4 Sign: green 53 Daughters of Queen: 5.1%
 Generation: 19 Hatch date: 30.05.2014 Workers: 0.4%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 3			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	57.4	105.9	2	9	54.2
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	111			
Honey yield	-	110			0.33
Defensive behavior	3.80	116			0.48
Steadiness on comb	4	116			0.52
Swarming drive	4	123			0.33
Varroa	-	(97)			0.19
Performance index	-	0			
Robustness in winter	3.80		70%	100%	170%
Development in Spring	3.80				
Colony strength	3.80				

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 J

Breeding selection report DE-4-4-16-2014-K

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Performance of the sisters

Amount of checked sisters: 16

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-4-4-12-2015	DE-3-4	1	96	61.3	99	3.5	98	3.5	98	3.2	103	(92)	
DE-4-4-13-2015	DE-3-4	1	96	62.1	99	3.5	98	3.3	96	3.5	103	(92)	
DE-4-4-16-2015	DE-3-4	1	112	62.7	107	3.8	122	4	122	3.8	119	(97)	
DE-4-4-17-2015	DE-3-4	1	102	62.4	103	3.5	107	3.8	108	3.8	112	(93)	
DE-4-4-18-2015	DE-3-4	1	111	65.4	109	3.8	117	3.8	117	4	123	(97)	
DE-4-4-19-2015	DE-3-4	1	104	59.4	99	3.8	110	3.5	109	3.8	113	(95)	
DE-4-4-20-2015	DE-3-4	1	92	60.8	97	3.2	95	3.5	95	3.5	100	(89)	
DE-4-4-3-2014	DE-3-4	1	87	54.3	98	3	87	3.5	88	3	91	(88)	
DE-4-4-5-2014	DE-3-4	1	105	52.7	102	3.8	110	3.8	110	3.8	114	(96)	
DE-4-4-6-2014	DE-3-4	1	108	52.8	103	4	116	3.8	116	3.5	112	(99)	
DE-4-4-7-2014	DE-3-4	1	106	58.6	109	3.8	110	3.8	111	3.5	111	(97)	
DE-4-4-9-2014	DE-3-4	1	103	50.1	99	3.8	109	3.8	109	3.8	113	(95)	
DE-4-4-13-2014-K	DE-3-4	1	115	57.2	111	4	122	4	122	3.8	121	(100)	
DE-4-4-14-2014	DE-3-4	1	100	54.9	102	3.8	103	3.5	103	3.2	102	(96)	
DE-4-4-15-2014	DE-3-4	1	94	49.9	95	3.5	95	3.5	95	3.8	106	(91)	
DE-4-4-16-2014-K	DE-3-4	1	111	57.4	110	3.8	116	4	116	4	123	(97)	