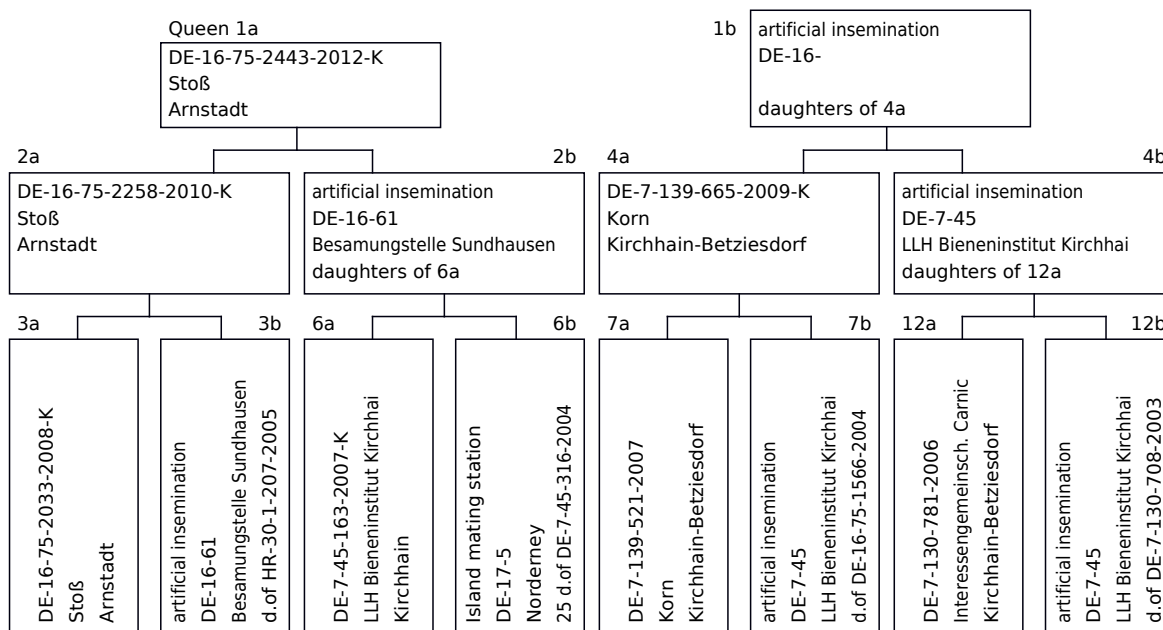


Tester of the queen: Gerhardt, Maik, 99310 Arnstadt, DE-16-345, Apiary 1
 Breeder of the queen: Stoß, Albrecht, 99310 Arnstadt, DE-16-75
1a Studbook number: **DE-16-75-2443-2012-K**

Race line: Sign: yellow 28 Daughters of Queen: 0.8%
 Generation: 31 Hatch date: 08.06.2012 Workers: 0.4%

A. Pedigree



B. Own performance

Performance test year	No. of the colony			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	71.7	135.2	1	8	53.1
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	135			
Honey yield	-	131			0.39
Defensive behavior	3.90	129			0.58
Steadiness on comb	3.80	128			0.61
Swarming drive	4	125			0.4
Varroa	-	125			0.5
Performance index	-	0			
Robustness in winter	3.80		70%	100%	170%
Development in Spring	3.90				
Colony strength	4				

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-16-75-2443-2012-K

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Performance of the sisters

Amount of checked sisters: 21

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-16-75-2423-2012	DE-7-45	2	105		102		102		102		102	108	
DE-16-75-2428-2012	DE-7-176	2	112		99		115		114		97	114	
DE-16-75-2429-2012	DE-7-312	1	127		109		122		120		101	133	
DE-16-75-2430-2012	DE-7-312	1	126		115		123		122		111	123	
DE-16-75-2426-2012	DE-7-315	1	125		114		111		108		103	134	
DE-16-75-2427-2012	DE-7-316	1	120		113		106		104		98	130	
DE-16-75-2432-2012	DE-16-318	1	110		110		104		103		100	114	
DE-16-75-2440-2012	DE-16-319	5	113		115		112		113		105	109	
DE-16-75-2434-2012	DE-16-325	9	108		99		98		96		94	120	
DE-16-75-2431-2012	DE-16-334	10	126		117		120		119		108	126	
DE-16-75-2435-2012	DE-16-336	8	100		94		92		91		87	114	
DE-16-75-2436-2012	DE-16-337	11	119		121		112		112		112	115	
DE-16-75-2437-2012	DE-16-339	12	103		109		98		98		101	103	
DE-16-75-2438-2012	DE-16-339	12	115		112		109		108		106	116	
DE-16-75-2439-2012	DE-16-345	1	115	46.3	104	3.6	109	3.5	108	3.3	97	123	
DE-16-75-2441-2012	DE-16-345	1	113	60.1	113	3.1	97	3.3	95	3.1	89	128	
DE-16-75-2442-2012	DE-16-345	1	105	47.4	102	3.1	96	3.3	95	3.2	90	116	
DE-16-75-2443-2012-K	DE-16-345	1	135	71.7	131	3.9	129	3.8	128	4	125	125	
DE-16-75-2444-2012	DE-16-345	1	119	62.7	119	3.5	109	3.5	108	3.9	111	119	
DE-16-75-2445-2012	DE-16-345	1	115	50.3	108	3.6	110	3.5	110	3.9	110	114	
DE-16-75-2446-2012	DE-16-345	1	108	47.9	105		(105)		(105)		(102)	109	