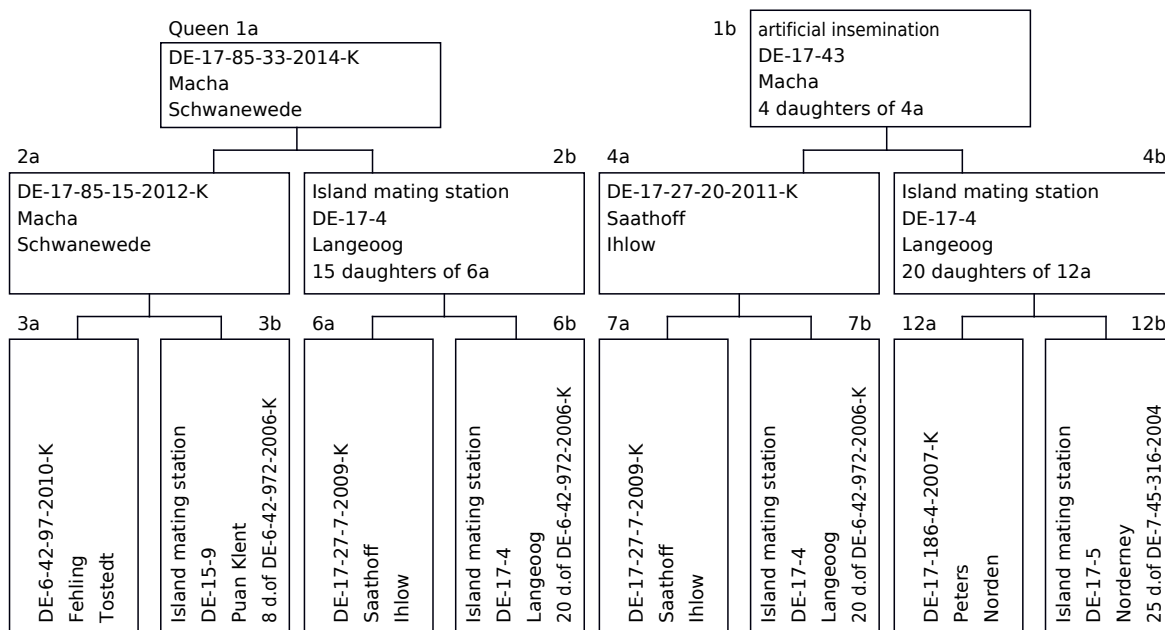


Tester of the queen: Macha, Georg, 28790 Schwanewede, DE-17-85, Apiary 3
 Breeder of the queen: Macha, Georg, 28790 Schwanewede, DE-17-85
1a Studbook number: **DE-17-85-33-2014-K**

Race line: -30 Sign: green Daughters of Queen: 9.5%
 Generation: 3 Hatch date: 25.05.2014 Workers: 10.7%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 45			comparable colonies at the apiary		
	kg	%	Ranking	number	Yield average kg	
	51	106.4	4	13	47.9	
	Assessment*	Breeding values				Reliability
Total breeding value¹	-	121				
Honey yield	-	114				0.49
Defensive behavior	4	112				0.66
Steadiness on comb	4	111				0.68
Swarming drive	4	109				0.48
Varroa	-	123				0.57
Performance index	-	0				
Robustness in winter	4		70%	100%	170%	
Development in Spring	4					
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-17-85-33-2014-K

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Performance of the sisters

Amount of checked sisters: 6

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-17-85-30-2014	DE-17-85	3	106	49	109	4	109	3.9	109	4	109	98	
DE-17-85-31-2014	DE-17-85	3	113	53	115	4	109	3.9	109	4	111	110	
DE-17-85-32-2014	DE-17-85	3	109	48	107	4	105	3.8	104	4	108	108	
DE-17-85-33-2014-K	DE-17-85	3	121	51	114	4	112	4	111	4	109	123	
DE-17-85-35-2014	DE-17-85	3	106	48	107	4	105	3.8	105	4	109	102	
DE-17-85-36-2014	DE-17-85	3	103	46	105	4	104	3.8	105	4	109	96	