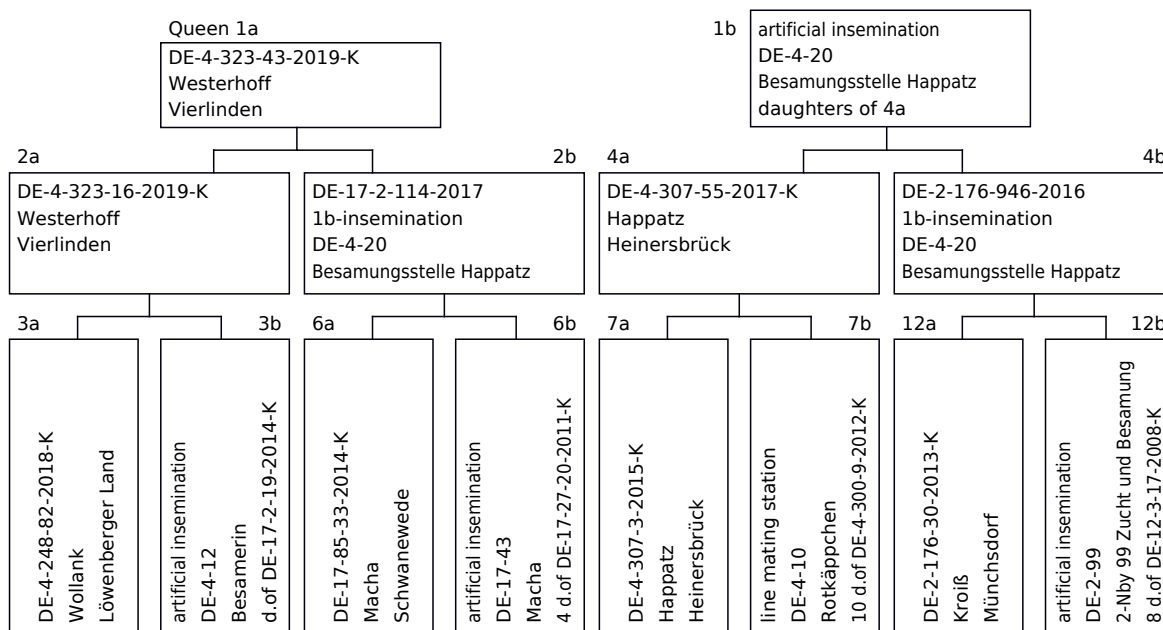


Tester of the queen: Westerhoff, Ansgar, 15306 Vierlinden, DE-4-323, Apiary 1
 Breeder of the queen: Westerhoff, Ansgar, 15306 Vierlinden, DE-4-323
1a Studbook number: **DE-4-323-43-2019-K**

Race line: Sign: green
 Generation: Hatch date: Daughters of Queen: 3.0%
 Workers: 1.0%

A. Pedigree



B. Own performance

Performance test year	No. of the colony			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	47.2	121.1	2	45	39.0
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	123			
Honey yield	-	125			0.39
Defensive behavior	4	121			0.5
Steadiness on comb	3.80	119			0.5
Swarming drive	4	113			0.4
Varroa	-	115			0.42
Performance index	-	123			0.39
Robustness in winter			70%	100%	170%
Development in Spring	3.90				
Colony strength					

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-4-323-43-2019-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 ndex
DE-4-323-41-2019	DE-4-323	1	121	43.8	124	3.9	120	3.8	117	3.5	113	113	122
DE-4-323-42-2019	DE-4-323	1	122	45.3	124	3.8	120	3.7	117	4	113	114	122
DE-4-323-43-2019-K	DE-4-323	1	123	47.2	125	4	121	3.8	119	4	113	115	123
DE-4-323-44-2019	DE-4-323	1	122	42.2	123	3.8	120	3.7	117	4	113	114	121
DE-4-323-45-2019	DE-4-323	1	122	43.5	124	3.8	120	3.8	118	4	113	114	122
DE-4-323-46-2019	DE-4-323	1	121	41.3	123	3.8	120	3.8	118	3.9	113	112	122