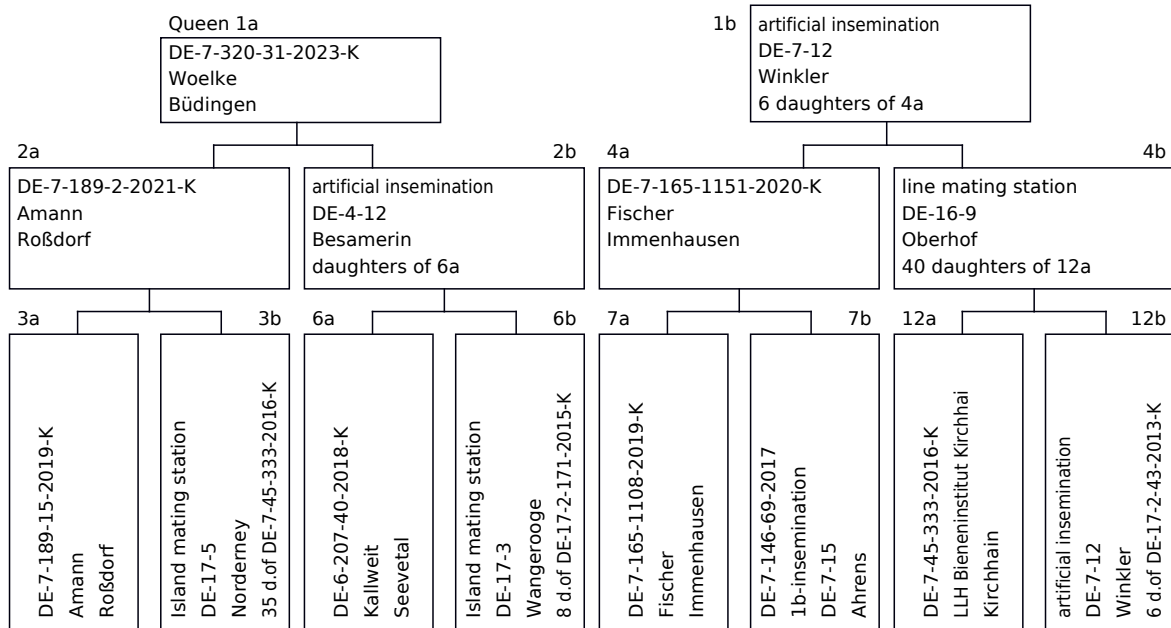


Tester of the queen: Woelke, Rolf, 63654 Büdingen, DE-7-320, Apiary 1
 Breeder of the queen: Woelke, Rolf, 63654 Büdingen, DE-7-320
1a Studbook number: **DE-7-320-31-2023-K**

Race line: -70 Sign: red 31 Daughters of Queen: 2.0%
 Generation: 0 Hatch date: 02.06.2023 Workers: 5.4%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 22			comparable colonies at the apiary		
	kg	%	Ranking	number	Yield average kg	
	59.2	162.7	1	12	36.4	
	Assessment*	Breeding values			Reliability	
Total breeding value¹	-	108	■			
Honey yield	-	109	■			0.46
Defensive behavior	3.50	105	■			0.54
Steadiness on comb	3.40	103	■			0.54
Swarming drive	3.80	109	■			0.48
Varroa	-	104	■			0.49
Performance index	-	108	■			0.46
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-7-320-31-2023-K

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Performance of the sisters

Amount of checked sisters: 7

Studbook number	Tester of the queen	Apiary	Total breeding value	Yield kg	Breeding Value Honey	Defensive behavior	Breeding Value Defensive	Calmness during inspection	Breeding Value Calmness	Swarming drive	Breeding Value Swarming	Varroa-index	Performance ndex
DE-7-320-26-2023	DE-7-173	2	101		91		Behavior		109		109	(101)	99
DE-7-320-27-2023	DE-7-173	2	106		102				108		111	99	109
DE-7-320-28-2023	DE-7-173	2	102		103				100		108	97	104
DE-7-320-29-2023	DE-7-173	2	109		104				108		111	104	110
DE-7-320-30-2023	DE-7-173	2	105		102				108		110	98	109
DE-7-320-31-2023-K	DE-7-320	1	108	59.2	109	3.5	105	3.4	103	3.8	109	104	108
DE-7-320-33-2023	NL-55-2	2	109		105				107		111	104	109