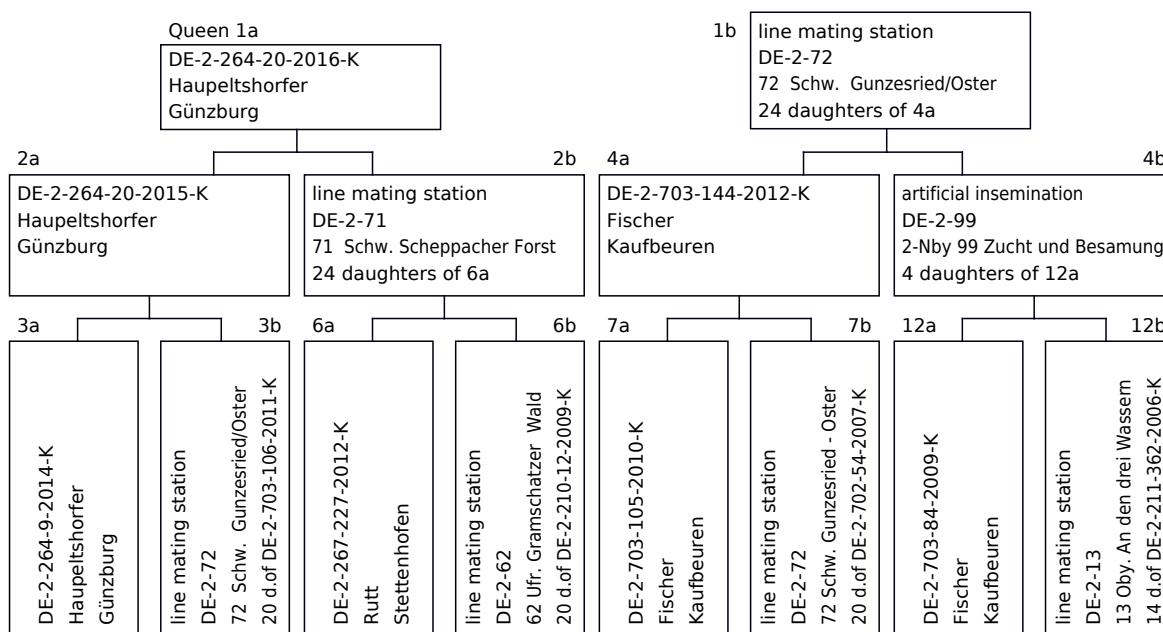


Tester of the queen: Ltg. Achim Fuchs, Prüfhof Kringell, 94116 Hutthurm, DE-2-502, Apiary 2
 Breeder of the queen: Hauptsthorfer, Werner, 89312 Günzburg, DE-2-264
1a Studbook number: **DE-2-264-20-2016-K**

Race line: Sign: white 33 Daughters of Queen: 2.0%
 Generation: 3 Hatch date: 06.06.2016 Workers: 1.4%

A. Pedigree



B. Own performance

Performance test year	No. of the colony			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	75.8	125.6	4	48	60.4
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	113			
Honey yield	-	121			0.41
Defensive behavior	3.10	113			0.64
Steadiness on comb	3.20	114			0.64
Swarming drive	4	105			0.38
Varroa	-	101			0.31
Performance index	-	0			
Robustness in winter	3		70%	100%	170%
Development in Spring	3				
Colony strength	3.40				

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-2-264-20-2016-K

Page 2

Performance of the sisters

Amount of checked sisters: 17

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-2-264-24-2016	DE-2-264	1	97		112		112		100		100	(91)	
DE-2-264-25-2016	DE-2-264	1	101		108		108		110		96	(91)	
DE-2-264-26-2016	DE-2-264	2	100		108		100		100		110	(91)	
DE-2-264-27-2016	DE-2-264	2	101		109		101		104		111	(91)	
DE-2-264-28-2016	DE-2-264	2	101		109		112		111		89	(91)	
DE-2-264-13-2016**	DE-2-501	1	101		(109)		(104)		(105)		(102)	(91)	
DE-2-264-14-2016-K	DE-2-501	1	98		108		100		100		103	91	
DE-2-264-15-2016	DE-2-501	1	95		98		101		101		102	89*	
DE-2-264-16-2016**	DE-2-501	1	101		(109)		(104)		(105)		(102)	(91)	
DE-2-264-17-2016-K	DE-2-501	1	105		101		125		126		106	82	
DE-2-264-18-2016-K	DE-2-502	2	109	64.9	111	3.3	124	3.5	125	4	105	86	
DE-2-264-19-2016**	DE-2-502	2	101		(109)		(104)		(105)		(102)	(91)	
DE-2-264-20-2016-K	DE-2-502	2	113	75.8	121	3.1	113	3.2	114	4	105	101	
DE-2-264-21-2016-K	DE-2-502	2	100	65.8	112	3.1	117	3.4	119	4	104	74	
DE-2-264-22-2016**	DE-2-502	2	101		(109)		(104)		(105)		(102)	(91)	
DE-2-264-8-2016**	DE-2-503	3	101		(109)		(104)		(105)		(102)	(91)	
DE-2-264-11-2016-K	DE-2-503	3	92		116		87		88		99	89	

Only one Varroa trait was recorded

Colony without performance tests