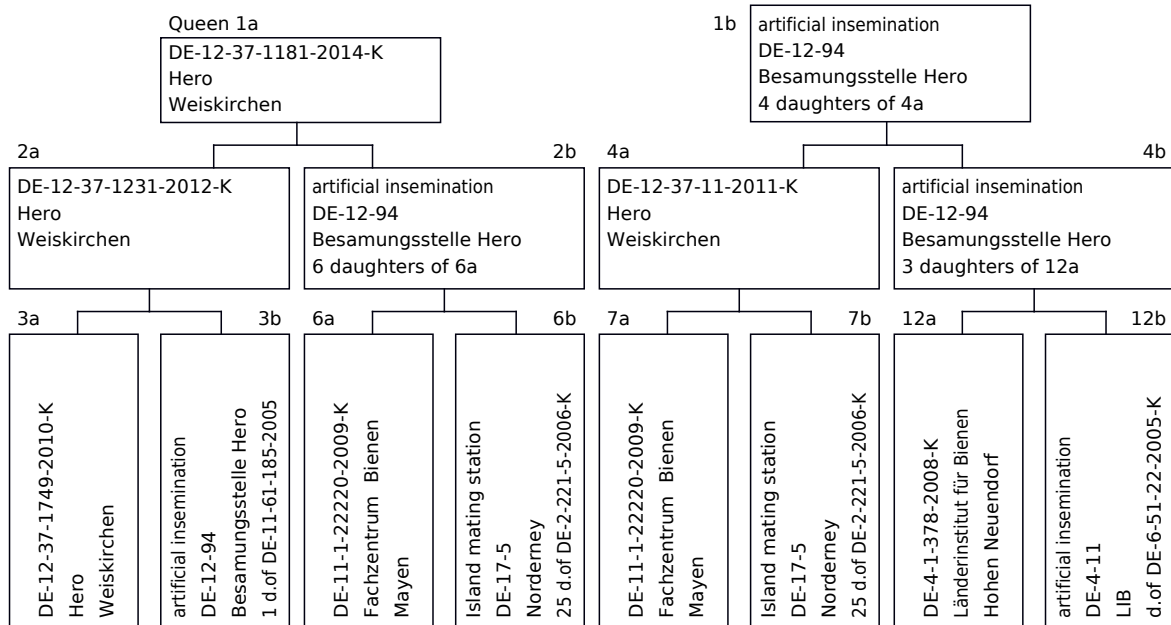


Tester of the queen: Hero, Horst, 66709 Weiskirchen, DE-12-37, Apiary 1
 Breeder of the queen: Hero, Horst, 66709 Weiskirchen, DE-12-37
1a Studbook number: **DE-12-37-1181-2014-K**

Race line: Sign: green 81 Daughters of Queen: 0.1%
 Generation: 3 Hatch date: 15.7.2014 Workers: 5.4%

A. Pedigree



B. Own performance

Performance test year	No. of the colony KK 6.1.			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	101.4	128.8	1	17	78.7
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	136			
Honey yield	-	128			0.38
Defensive behavior	3.80	125			0.58
Steadiness on comb	3.90	123			0.61
Swarming drive	4	120			0.38
Varroa	-	134			0.48
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-12-37-1181-2014-K

Page 2

Performance of the sisters

Amount of checked sisters: 19

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 index
DE-12-37-1163-2014	DE-11-76	2	89		83		Behavior		during		drive	(101)	
DE-12-37-1153-2014	DE-11-94	2	108		106		112		inspection		109	100	
DE-12-37-1154-2014-K	DE-11-94	2	111		112		109		110		107	107	
DE-12-37-1141-2014	DE-12-37	1	116	91.4	116	3.6	110	3.6	111	3.5	105	115	
DE-12-37-1144-2014	DE-12-37	1	102	81.1	105	3.4	101	3.4	102	3	94	104	
DE-12-37-1155-2014	DE-12-37	1	100	64.8	92	3.5	104	3.5	104	3	93	102	
DE-12-37-1156-2014	DE-12-37	1	102	61.3	90	3.5	103	3.5	103	3	90	108	
DE-12-37-1157-2014	DE-12-37	1	104	74.9	102	3.5	105	3.5	106	4	112	98	
DE-12-37-1161-2014	DE-12-37	1	101	91.4	112	3.2	95	3.2	96	3.5	100	100	
DE-12-37-1167-2014	DE-12-37	1	118	92.3	116	3.6	110	3.6	110	3.5	105	119	
DE-12-37-1168-2014	DE-12-37	1	96	51.9	82	3.5	101	3.4	101	3	88	103	
DE-12-37-1169-2014	DE-12-37	1	92	73	96	3	87	3	88	4	103	95	
DE-12-37-1173-2014	DE-12-37	1	105	73.9	100	3.5	105	3.5	105	3.5	100	105	
DE-12-37-1175-2014	DE-12-37	1	94	39.2	72	3.5	102	3.5	101	3	85	103	
DE-12-37-1176-2014-K	DE-12-37	1	134	97.6	126	3.9	128	3.9	127	4	123	127	
DE-12-37-1177-2014	DE-12-37	1	108	91.6	114	3.5	105	3.5	107	3.5	106	103	
DE-12-37-1178-2014	DE-12-37	1	104	75.5	100	3.4	100	3.4	100	3.5	98	108	
DE-12-37-1180-2014	DE-12-37	1	101	76.3	102	3.5	105	3.5	106	3	97	98	
DE-12-37-1181-2014-K	DE-12-37	1	136	101.4	128	3.8	125	3.9	123	4	120	134	