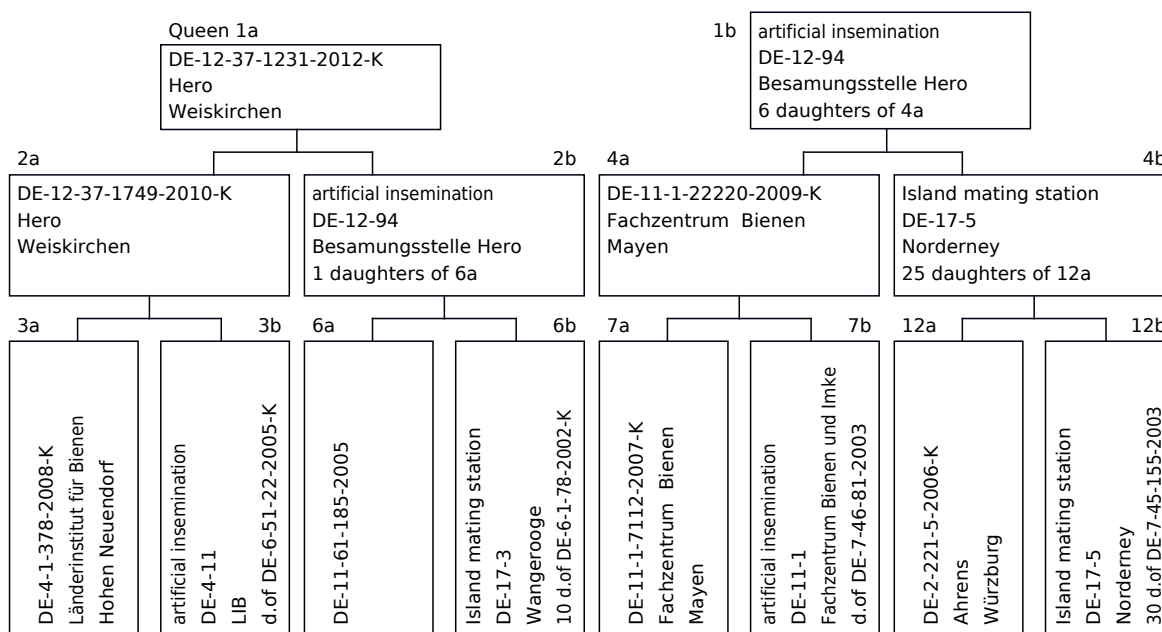


Tester of the queen: Hero, Horst, 66709 Weiskirchen, DE-12-37, Apiary 1
 Breeder of the queen: Hero, Horst, 66709 Weiskirchen, DE-12-37
1a Studbook number: **DE-12-37-1231-2012-K**

Race line: Sign: yellow 31
 Generation: 2 Hatch date: 21.7.2012

Daughters of Queen: 0.2%
 Workers: 0.1%

A. Pedigree



B. Own performance

Performance test year	No. of the colony PV10			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	45.5	97.7	10	16	46.6
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	131			
Honey yield	-	112			0.43
Defensive behavior	3.70	124			0.63
Steadiness on comb	3.70	122			0.65
Swarming drive	4	114			0.42
Varroa	-	132			0.53
Performance index	-	0			
Robustness in winter	3.50		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-12-37-1231-2012-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 Behavior	Calmness during inspection	Breeding Value Calmness	Swarming drive	Breeding Value Swarming	Varroa-index	Performance index
DE-12-34-3012-2012	DE-12-34	1	125		111		Behavior		125		drive	(119)	
DE-12-34-8212-2012	DE-12-34	1	125		117			inspection	125		114	(117)	
DE-12-34-8312-2012	DE-12-34	1	119		116				116		110	(115)	
DE-12-34-8412-2012	DE-12-34	1	108		99				107		94	(113)	
DE-12-34-8912-2012	DE-12-34	1	110		103				108		103	(111)	
DE-12-34-9312-2012	DE-12-34	1	102		101				95		97	(107)	
DE-12-36-111-2012	DE-12-36	1	97		90				93		97	104	
DE-12-36-113-2012	DE-12-36	1	114		102				111		100	117	
DE-12-37-1211-2012	DE-12-37	1	104	23	92	3.5	108	3.5	108	3	95	106	
DE-12-37-1214-2012	DE-12-37	1	122	46.8	110	3.5	110	3.5	108	4	107	130	
DE-12-37-1219-2012	DE-12-37	1	114	39.7	106	3.6	113	3.5	113	4	112	111	
DE-12-37-1224-2012	DE-12-37	1	107	61	117	3.4	105	3.4	107	2	96	104	
DE-12-37-1229-2012	DE-12-37	1	104	30.7	97	3.5	109	3.5	109	3	97	104	
DE-12-37-1231-2012-K	DE-12-37	1	131	45.5	112	3.7	124	3.7	122	4	114	132	
DE-12-37-1232-2012	DE-12-37	1	116	46.3	110	3.6	117	3.6	117	3	102	114	
DE-12-37-1288-2012	DE-12-37	2	110	52.1	110	3.4	111	3.4	112	3	100	108	
DE-12-37-1292-2012	DE-12-37	2	127	56.4	117	3.5	116	3.5	115	4	112	131	
DE-12-37-1293-2012	DE-12-37	2	105	44	103	3.3	106	3.3	107	4	110	100	
DE-12-37-1294-2012	DE-12-37	2	101	45	102	3.2	102	3.2	103	3	94	102	