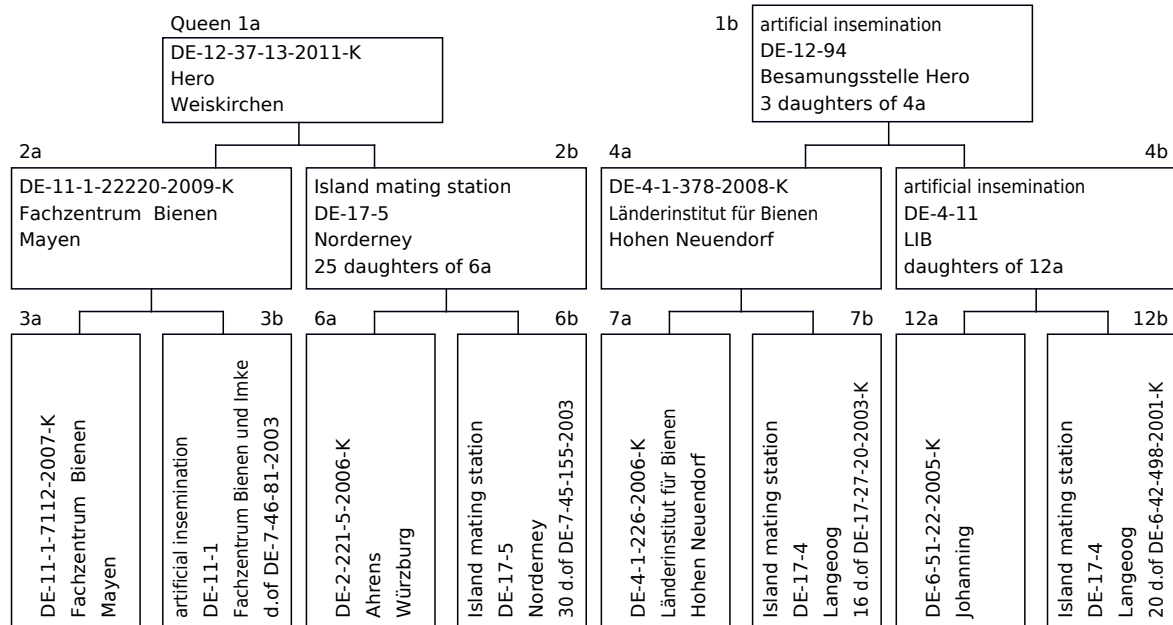


Tester of the queen: Hero, Horst, 66709 Weiskirchen, DE-12-37, Apiary 1
 Breeder of the queen: Hero, Horst, 66709 Weiskirchen, DE-12-37
1a Studbook number: **DE-12-37-13-2011-K**

Race line: Sign: white 17
 Generation: 1 Hatch date: 31.5.2011

Daughters of Queen: 0.3%
 Workers: 0.1%

A. Pedigree



B. Own performance

Performance test year	No. of the colony PV 5			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	47.4	116.6	4	14	40.6
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	131			
Honey yield	-	116			0.42
Defensive behavior	4	127			0.62
Steadiness on comb	4	125			0.65
Swarming drive	4	118			0.42
Varroa	-	127			0.53
Performance index	-	0			
Robustness in winter	3.90		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-12-37-13-2011-K

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Performance of the sisters

Amount of checked sisters: 13

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-12-37-31-2011-K	DE-11-61	1	116		109							117	
DE-12-37-11-2011-K	DE-12-36	1	141		123		137		137		125	132	
DE-12-37-9-2011	DE-12-37	1	119	44.6	111	3.7	112	3.6	111	4	111	119	
DE-12-37-12-2011	DE-12-37	1	104	9.7	84	3.7	110	3.7	109	3	93	110	
DE-12-37-13-2011-K	DE-12-37	1	131	47.4	116	4	127	4	125	4	118	127	
DE-12-37-30-2011	DE-12-37	1	97	52.1	111	3	96	3.2	98	3	97	94	
DE-12-37-37-2011	DE-12-37	2	109	9.1	101	3.5	105	3.4	105	3	101	112	
DE-12-37-27-2011	DE-12-38	1	123		113		124		125		116	(115)	
DE-12-37-32-2011	DE-12-38	1	109		102		105		105		106	(110)	
DE-12-37-33-2011	DE-12-38	1	110		101		114		115		96	(109)	
DE-12-38-1-2011	DE-12-38	1	98		97		96		96		84	(106)	
DE-12-38-2-2011	DE-12-38	1	104		96		101		101		102	(107)	
DE-12-38-3-2011	DE-12-38	1	127		123		125		126		119	(117)	