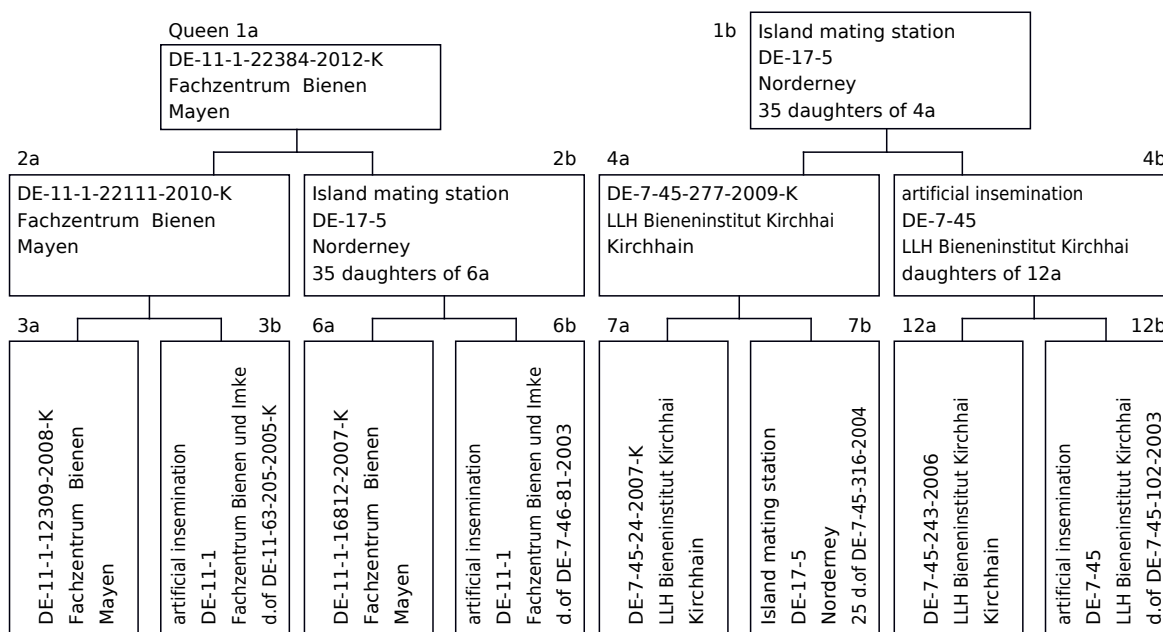


Tester of the queen: Billich, Tobias, 54516 Wittlich, DE-11-139, Apiary 2
 Breeder of the queen: Fachzentrum Bienen, Mayen, 56727 Mayen, DE-11-1
1a Studbook number: **DE-11-1-22384-2012-K**

Race line: -0 Sign: yellow 84 Daughters of Queen: 4%
 Generation: 11 Hatch date: 19.6.2012 Workers: 1%

A. Pedigree



B. Own performance

Performance test year	No. of the colony			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	68.8	152.3	1	14	45.2
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	118			
Honey yield	-	130			0.44
Defensive behavior	3.40	106			0.64
Steadiness on comb	3.50	108			0.66
Swarming drive	3	109			0.44
Varroa	-	114			0.54
Performance index	-	0			
Robustness in winter			70%	100%	170%
Development in Spring					
Colony strength					

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-11-1-22384-2012-K

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Performance of the sisters

Amount of checked sisters: 8

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-11-1-22382-2012	DE-11-1	10	107		120		Behavior		109		drive	102	
DE-11-1-22383-2012-K	DE-11-1	10	114		123				inspection		104	111	
DE-11-1-22385-2012	DE-11-1	10	93		89				92		88	102	
DE-11-1-22923-2012	DE-11-1	13	101		112				99		111	94	
DE-11-1-22384-2012-K	DE-11-139	2	118	68.8	130	3.4		3.5	108	3	109	114	
DE-11-1-22944-2012-K	DE-15-163	1	114		116				100		99	121	
DE-11-1-2959-2012	DE-17-159	7	107		115				98		103	108	
DE-11-1-2957-2012	DE-17-213	5	109		111				96		102	116*	

Only one Varroa trait was recorded