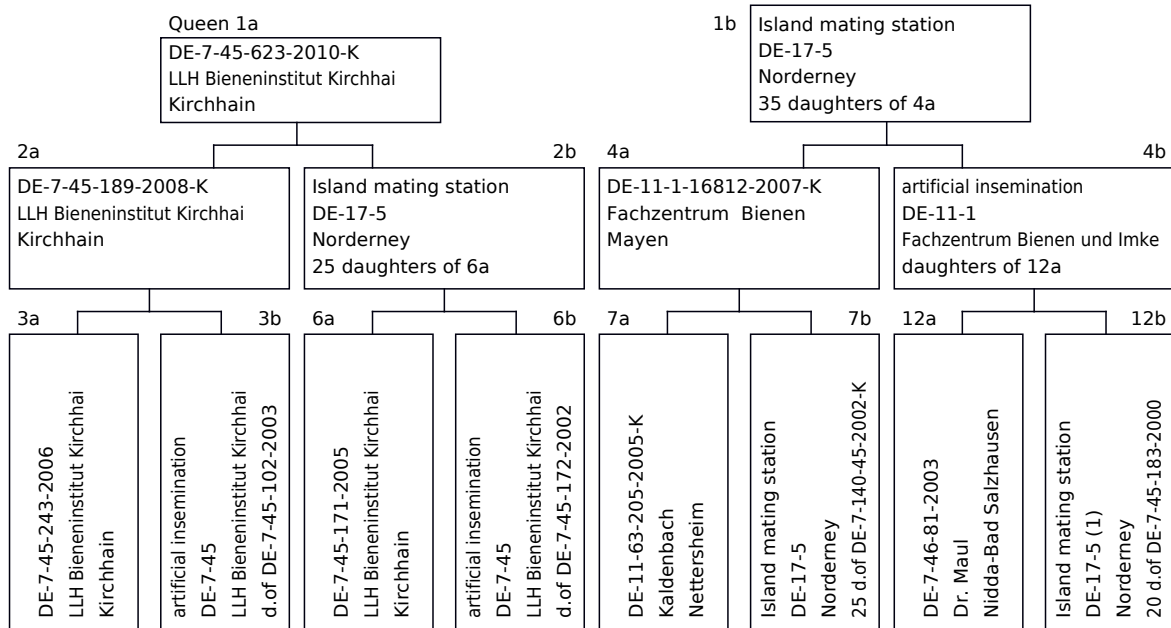


Tester of the queen: LLH Bieneninstitut Kirchhain, 35274 Kirchhain, DE-7-45, Apiary 4
 Breeder of the queen: LLH Bieneninstitut Kirchhain, 35274 Kirchhain, DE-7-45
1a Studbook number: **DE-7-45-623-2010-K**

Race line: -1 Sign: blue 20- Daughters of Queen: 0.5%
 Generation: 4 Hatch date: 07.06.2010 Workers: 1.1%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 378			comparable colonies at the apiary		
	kg	%	Ranking	number	Yield average kg	
	85.2	120.3	3	14	70.8	
	Assessment*	Breeding values			Reliability	
Total breeding value¹	-	122	[Bar chart]			
Honey yield	-	124	[Bar chart]			0.43
Defensive behavior	2.90	116	[Bar chart]			0.64
Steadiness on comb	3	117	[Bar chart]			0.66
Swarming drive	4	131	[Bar chart]			0.43
Varroa	-	110	[Bar chart]			0.54
Performance index	-	0	[Bar chart]			
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

none Analysis of race characteristics

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-7-45-623-2010-K

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Performance of the sisters

Amount of checked sisters: 4

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-7-45-85-2010-K	DE-2-132	1	109		111							(113)	
DE-7-45-622-2010	DE-7-45	3	103	84.9	121	2.3	99	2.2	101	2	106	97	
DE-7-45-623-2010-K	DE-7-45	4	122	85.2	124	2.9	116	3	117	4	131	110	
DE-7-45-621-2010-K	DE-7-161	1	117		114		107		107		115	117	