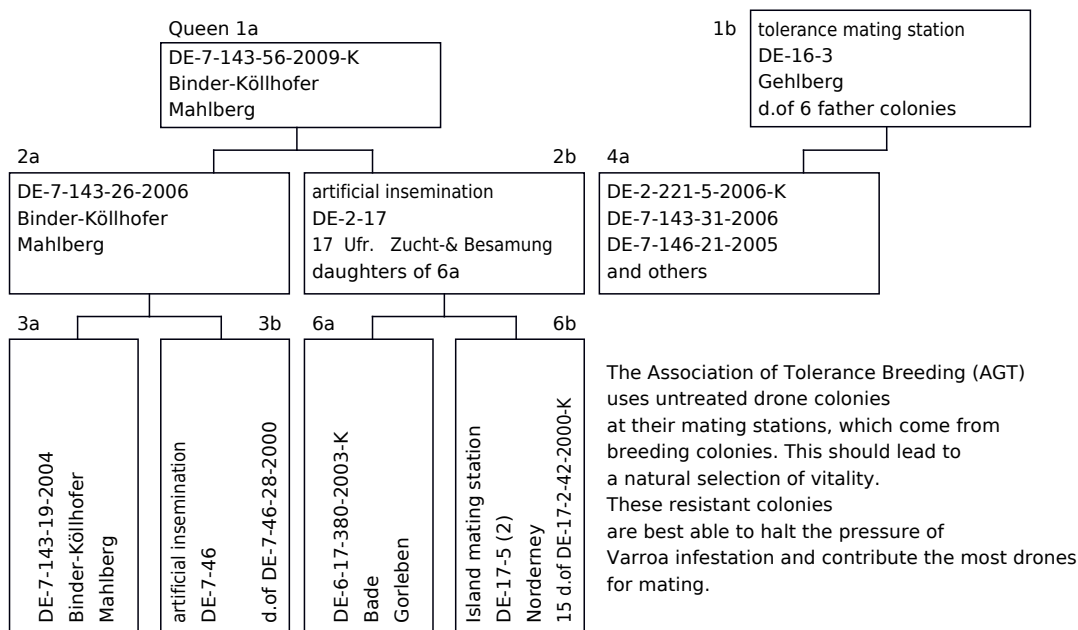


Tester of the queen: LLH Bieneninstitut Kirchhain, 35274 Kirchhain, DE-7-45, Apiary 4
 Breeder of the queen: Binder-Köllhofer, Bruno, 77972 Mahlberg, DE-7-143
1a Studbook number: **DE-7-143-56-2009-K**

Race line: Sign: green 56
 Generation: 4 Hatch date: 13.06.2009

Daughters of
 Queen: 0.7%
 Workers: 1.1%

A. Pedigree



B. Own performance

Performance test year	No. of the colony 295			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	99	129.4	1	15	76.5
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	93	■		
Honey yield	-	96	■		0.47
Defensive behavior	2.70	91	■		0.59
Steadiness on comb	2.10	83	■		0.57
Swarming drive	3	99	■		0.55
Varroa	-	97	■		0.53
Performance index	-	91	■		0.47
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.

For the correctness DE-7

Breeding selection report DE-7-143-56-2009-K

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Performance of the sisters

Amount of checked sisters: 5

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-7-143-67-2009	DE-2-221	1	84		95		82		83		85	85	85
DE-7-143-52-2009	DE-7-45	3	88	90.6	95	2.8	89	2.3	85	3	96	88	89
DE-7-143-56-2009-K	DE-7-45	4	93	99	96	2.7	91	2.1	83	3	99	97	91
DE-7-143-81-2009	DE-7-143	1	87		91		90		87		87	90	87
DE-7-143-84-2009	DE-7-143	1	87		95		86		79		98	88	87