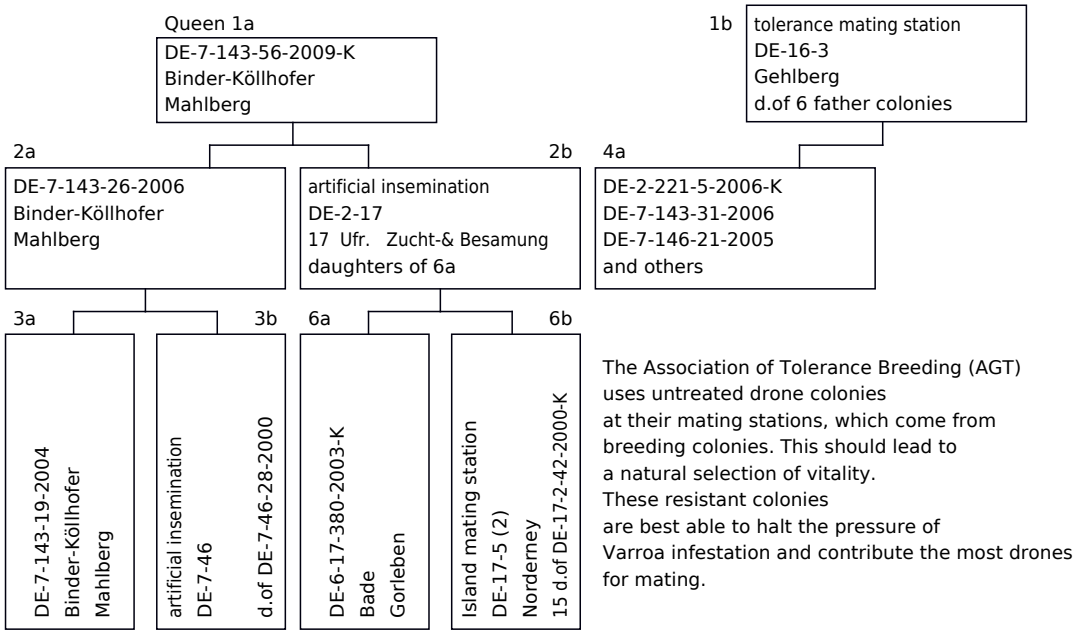
DEUTSCHER IMKERBUND E.V.

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

Landesverband Hessischer Imker e.V.

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**	
		Daughters of
Race line:	Sign: green 56	Queen: 0.7%
Generation: 4	Hatch date: 13.06.2009	Workers: 1.1%

A. Pedigree



The Association of Tolerance Breeding (AGT) uses untreated drone colonies at their mating stations, which come from breeding colonies. This should lead to a natural selection of vitality. These resistant colonies are best able to halt the pressure of Varroa infestation and contribute the most drones for mating.

B. Own performance

	No. of the colony 295			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
Performance test year	99	129.4	1	15	76.5

	Assessment*	Breeding values	Reliability
Total breeding value[1]	-	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			
Development in Spring			
Colony strength			

70% 100% 170%

[1]In 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 during inspection	Swarming drive	Breeding Value Swarming drive	Varroa-index	Performance ndex
DE-7-143-67-2009	DE-2-221	1	84		95		82		78		97	85	85
DE-7-143-52-2009	DE-7-45	3	88	90.6	95	2.8	89	2.3	83	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