

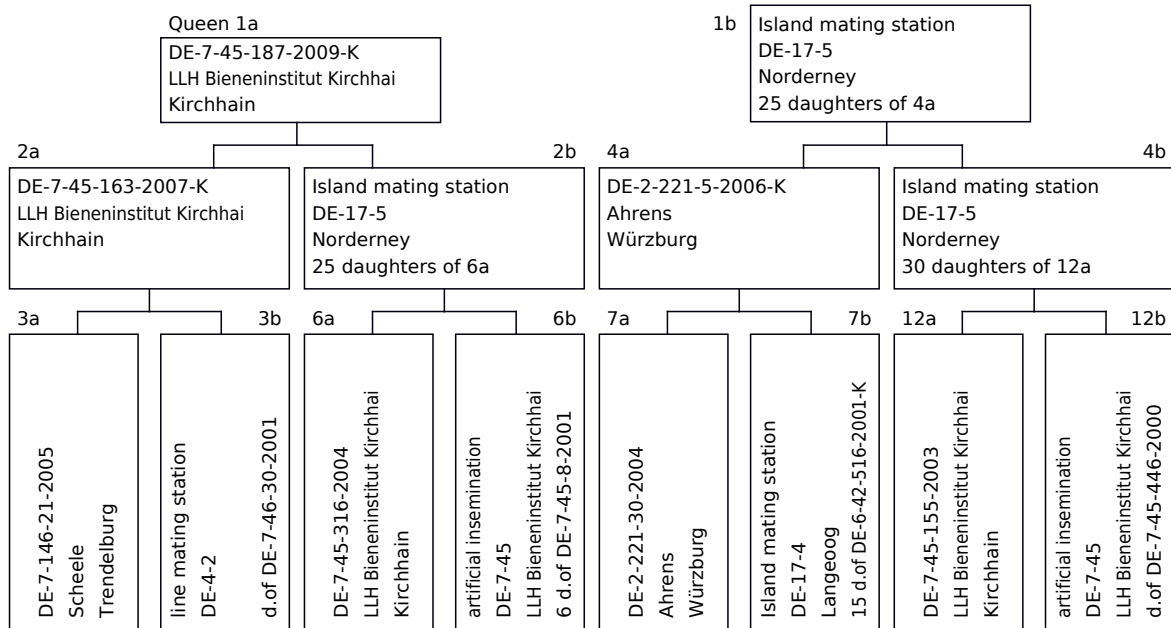
Tester of the queen: Biedenbach, Hans-Georg, 36088 Hünfeld, DE-7-161, Apiary 1
Breeder of the queen: LLH Bieneninstitut Kirchhain, 35274 Kirchhain, DE-7-45
1a Studbook number: **DE-7-45-187-2009-K**

Race line: -1
Generation: 2

Sign: green 76
Hatch date: 24.05.2009

Daughters of
Queen: 1.2%
Workers: 1.1%

A. Pedigree



B. Own performance

| Performance test year | No. of the colony 50 | | | comparable colonies at the apiary | |
|---|----------------------|-----------------|---------|-----------------------------------|------------------|
| | kg | % | Ranking | number | Yield average kg |
| | 76 | 118 | 2 | 13 | 64.4 |
| | Assessment* | Breeding values | | | Reliability |
| Total breeding value¹ | - | 127 | | | |
| Honey yield | - | 116 | | | 0.44 |
| Defensive behavior | 3.50 | 117 | | | 0.62 |
| Steadiness on comb | 3.50 | 114 | | | 0.65 |
| Swarming drive | 3.50 | 111 | | | 0.44 |
| Varroa | - | 129 | | | 0.54 |
| Performance index | - | 0 | | | |
| Robustness in winter | 3.50 | | 70% | 100% | 170% |
| Development in Spring | 3.50 | | | | |
| Colony strength | 3.50 | | | | |

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-7-45-187-2009-K

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Performance of the sisters

Amount of checked sisters: 6

| 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-7-45-781-2009 | DE-6-111 | 1 | 109 | | 107 | | 107 | | 107 | | 107 | 113 | |
| DE-7-45-177-2009 | DE-7-45 | 2 | 111 | | 98 | | 109 | | 107 | | 96 | 118 | |
| DE-7-45-185-2009 | DE-7-45 | 3 | 113 | | 95 | | 112 | | 110 | | 116 | 114 | |
| DE-7-45-184-2009 | DE-7-45 | 4 | 110 | | 88 | | 104 | | 101 | | 91 | 125 | |
| DE-7-45-738-2009-K | DE-7-45 | 4 | 106 | | 114 | | 111 | | 112 | | 107 | 95 | |
| DE-7-45-187-2009-K | DE-7-161 | 1 | 127 | 76 | 116 | 3.5 | 117 | 3.5 | 114 | 3.5 | 111 | 129 | |