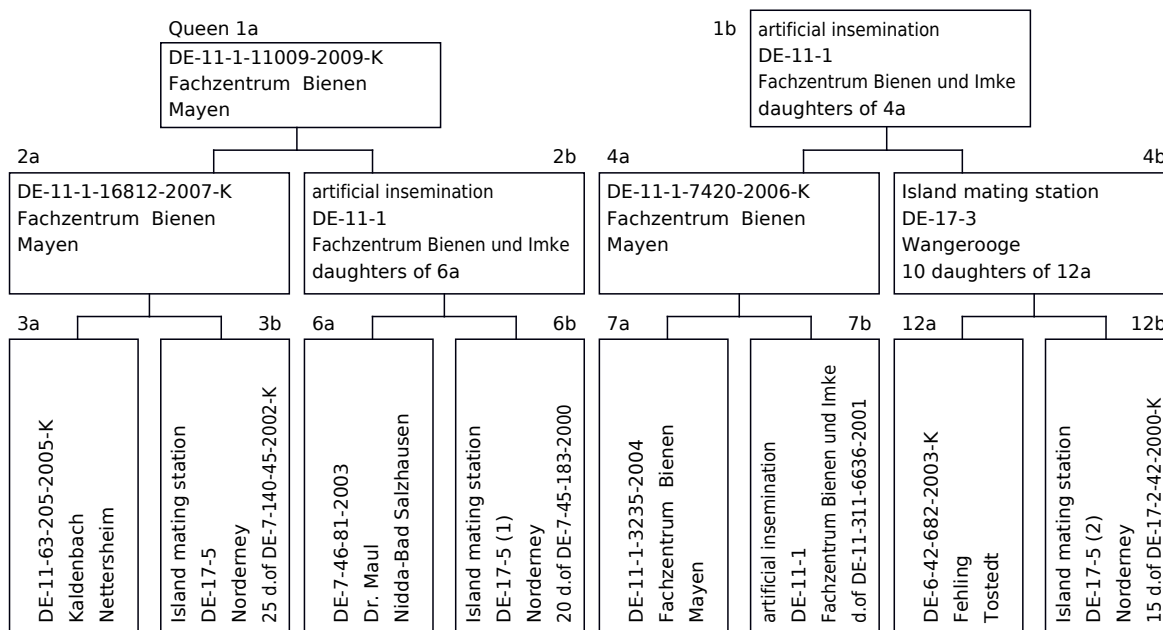


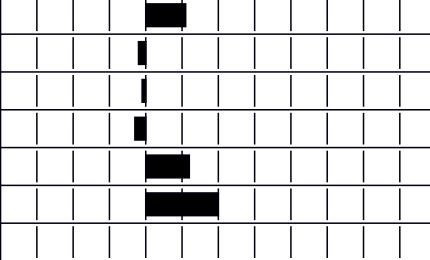
Tester of the queen: Fachzentrum Bienen, Mayen, 56727 Mayen, DE-11-1, Apiary 4
 Breeder of the queen: Fachzentrum Bienen, Mayen, 56727 Mayen, DE-11-1
1a Studbook number: **DE-11-1-11009-2009-K**

Race line: -0 Sign: green 9 Daughters of Queen: 0.2%
 Generation: 8 Hatch date: 19.05.2009 Workers: 1%

A. Pedigree



B. Own performance

| Performance test year | No. of the colony 355 | | | comparable colonies at the apiary | | |
|---|-----------------------|-----------------|--|-----------------------------------|------------------|------|
| | kg | % | Ranking | number | Yield average kg | |
| | 61.6 | 83.2 | 8 | 9 | 74.0 | |
| | Assessment* | Breeding values | | | Reliability | |
| Total breeding value¹ | - | 111 |  | | | |
| Honey yield | - | 98 | | | | 0.42 |
| Defensive behavior | 4 | 99 | | | | 0.62 |
| Steadiness on comb | 3.40 | 97 | | | | 0.64 |
| Swarming drive | 4 | 112 | | | | 0.42 |
| Varroa | - | 120 | | | | 0.52 |
| 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-11-1-11009-2009-K

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Performance of the sisters

Amount of checked sisters: 3

| 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-11-1-11009-2009-K | DE-11-1 | 4 | 111 | 61.6 | 98 | 4 | 99 | 3.4 | 97 | 4 | 112 | 120 | |
| DE-11-1-11006-2009-K | DE-11-1 | 5 | 120 | 64.3 | 120 | 4 | 114 | 4 | inspection 114 | 4 | 115 | 115 | |
| DE-11-1-11007-2009 | DE-11-1 | 5 | 98 | 59.7 | 108 | 3.5 | 85 | 3.2 | 85 | 1 | 84 | 110* | |

Only one Varroa trait was recorded