

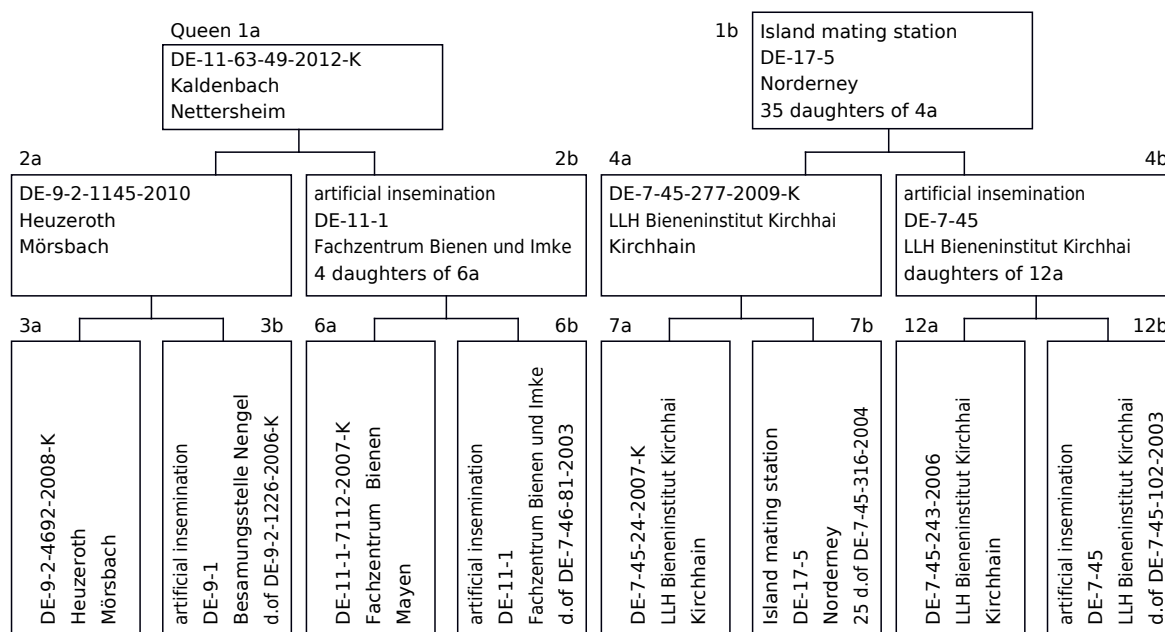
Tester of the queen: Billich, Tobias, 54516 Wittlich, DE-11-139, Apiary 2
 Breeder of the queen: Kaldenbach, Klaus, 53947 Nettersheim, DE-11-63
1a Studbook number: **DE-11-63-49-2012-K**

Race line: -60
 Generation: 5

Sign: yellow 46
 Hatch date: 3.6.2012

Daughters of
 Queen: 0.2%
 Workers: 0.5%

A. Pedigree



B. Own performance

| Performance test year | No. of the colony | | | comparable colonies at the apiary | |
|---|-------------------|-----------------|-------------|-----------------------------------|------------------|
| | kg | % | Ranking | number | Yield average kg |
| | 68 | 150.5 | 2 | 14 | 45.2 |
| | Assessment* | Breeding values | | | Reliability |
| Total breeding value¹ | - | 122 | [Bar chart] | | |
| Honey yield | - | 127 | [Bar chart] | | 0.42 |
| Defensive behavior | 3.50 | 100 | [Bar chart] | | 0.63 |
| Steadiness on comb | 2.60 | 99 | [Bar chart] | | 0.66 |
| Swarming drive | 3.50 | 109 | [Bar chart] | | 0.42 |
| Varroa | - | 129 | [Bar chart] | | 0.53 |
| 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

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-11-63-49-2012-K

Page 2

Performance of the sisters

Amount of checked sisters: 11

| 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-11-24-82-2012 | DE-11-24 | 1 | 105 | | 103 | | 103 | | 103 | | 103 | 142* | |
| DE-11-24-83-2012 | DE-11-24 | 1 | 103 | | 102 | | 80 | | 80 | | 93 | 124* | |
| DE-11-24-86-2012 | DE-11-24 | 1 | 108 | | 100 | | 101 | | 101 | | 106 | 113* | |
| DE-11-63-39-2012 | DE-11-63 | 1 | 112 | | 101 | | 97 | | 94 | | 96 | 128 | |
| DE-11-138-3-2012 | DE-11-138 | 1 | 112 | | 105 | | 102 | | 101 | | 105 | 118 | |
| DE-11-138-4-2012 | DE-11-138 | 1 | 125 | | 116 | | 107 | | 105 | | 108 | 135 | |
| DE-11-138-5-2012 | DE-11-138 | 1 | 104 | | 92 | | 97 | | 97 | | 100 | 112 | |
| DE-11-63-49-2012-K | DE-11-139 | 2 | 122 | 68 | 127 | 3.5 | 100 | 2.6 | 99 | 3.5 | 109 | 129 | |
| DE-11-63-52-2012 | DE-11-139 | 2 | 117 | 24.9 | 98 | 3.5 | 102 | 3.1 | 99 | 3 | 94 | 135 | |
| DE-11-63-59-2012-K | DE-11-139 | 2 | 129 | 43.4 | 112 | 3.5 | 105 | 3.2 | 101 | 3 | 94 | 152 | |
| DE-11-63-56-2012 | DE-11-155 | 1 | 121 | | 119 | | 104 | | 103 | | 109 | (128) | |

Only one Varroa trait was recorded