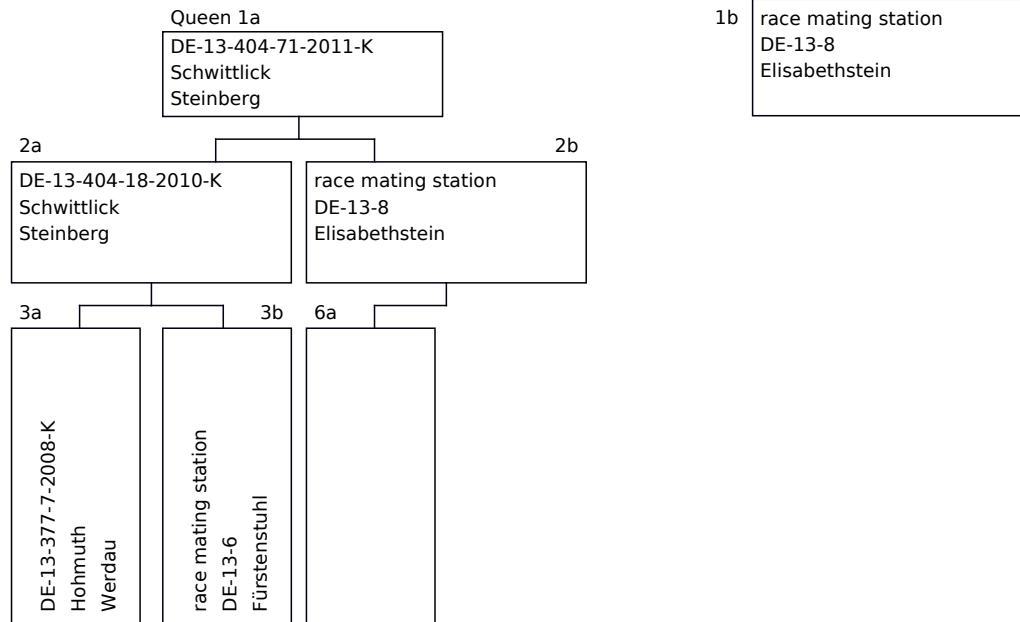


Tester of the queen: Schwittlick, Ralf, 08237 Steinberg, DE-13-404, Apiary 1
 Breeder of the queen: Schwittlick, Ralf, 08237 Steinberg, DE-13-404
1a Studbook number: **DE-13-404-71-2011-K**

Race line: Sign: white 14
 Generation: 1 Hatch date: 15.06.2011

Daughters of
 Queen: 0%
 Workers: 0%

A. Pedigree



B. Own performance

| Performance test year | No. of the colony | | | comparable colonies at the apiary | |
|---|-------------------|-----------------|---------|-----------------------------------|------------------|
| | kg | % | Ranking | number | Yield average kg |
| | 63 | 115.9 | 1 | 8 | 54.4 |
| | Assessment* | Breeding values | | | Reliability |
| Total breeding value¹ | - | 110 | | | |
| Honey yield | - | 111 | | | 0.33 |
| Defensive behavior | 3.80 | 109 | | | 0.53 |
| Steadiness on comb | 3.80 | 109 | | | 0.56 |
| Swarming drive | 4 | 112 | | | 0.32 |
| Varroa | - | (103) | | | 0.16 |
| Performance index | - | 0 | | | |
| Robustness in winter | 3.80 | | 70% | 100% | 170% |
| Development in Spring | 3.80 | | | | |
| Colony strength | 4 | | | | |

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 A

Suitable for breeding with no restrictions; suitable for use as a 4a colony at frequently visited mating stations (all customary breeding values over 100).

Breeding selection report DE-13-404-71-2011-K

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Performance of the sisters

Amount of checked sisters: 8

| 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-13-404-49-2011 | DE-13-404 | 1 | 86 | 42 | 83 | 3.5 | 89 | 3.5 | 89 | 3.5 | 84 | (94) | |
| DE-13-404-50-2011 | DE-13-404 | 1 | 87 | 55 | 96 | 3.3 | 85 | 3.5 | 85 | 3.5 | 85 | (93) | |
| DE-13-404-51-2011 | DE-13-404 | 1 | 101 | 61 | 107 | 3.6 | 99 | 3.7 | 99 | 4 | 106 | (99) | |
| DE-13-404-52-2011 | DE-13-404 | 1 | 106 | 56 | 103 | 3.8 | 108 | 3.8 | 108 | 3.9 | 106 | (101) | |
| DE-13-404-71-2011-K | DE-13-404 | 1 | 110 | 63 | 111 | 3.8 | 109 | 3.8 | 109 | 4 | 112 | (103) | |
| DE-13-404-72-2011 | DE-13-404 | 1 | 86 | 43 | 84 | 3.5 | 89 | 3.5 | 89 | 3.5 | 84 | (94) | |
| DE-13-404-73-2011 | DE-13-404 | 1 | 99 | 56 | 100 | 3.7 | 97 | 3.5 | 96 | 3.9 | 101 | (99) | |
| DE-13-404-74-2011 | DE-13-404 | 1 | 102 | 59 | 105 | 3.7 | 102 | 3.7 | 102 | 3.8 | 101 | (100) | |