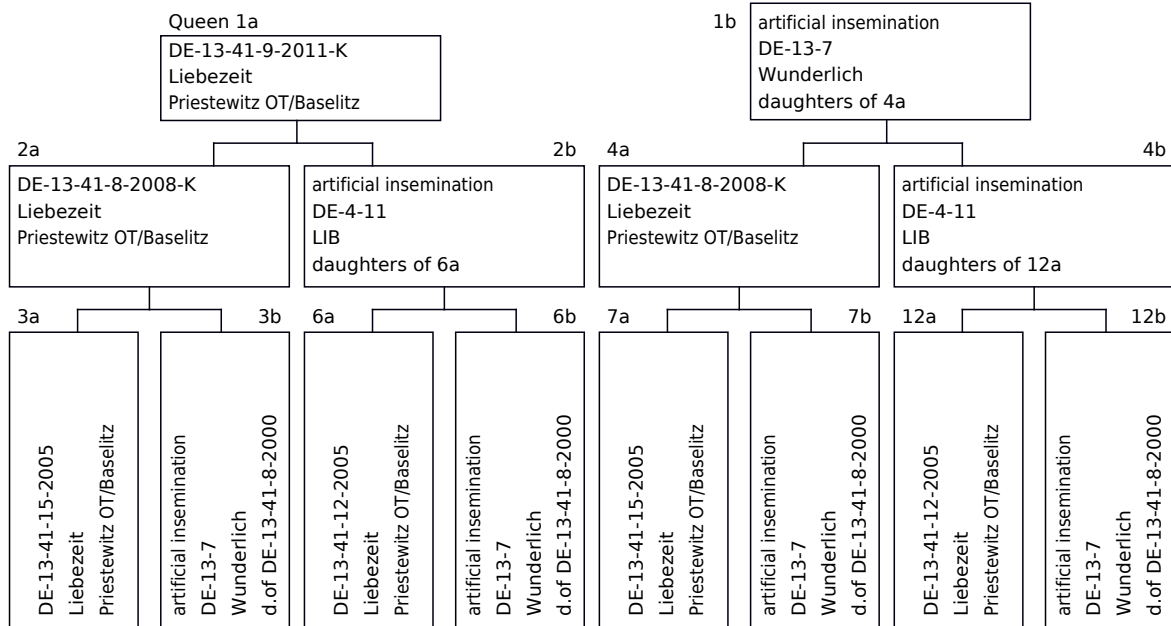


Tester of the queen: Liebezeit, Gerhard, 01561 Priestewitz OT/Baselitz, DE-13-41, Apiary 1
 Breeder of the queen: Liebezeit, Gerhard, 01561 Priestewitz OT/Baselitz, DE-13-41
1a Studbook number: **DE-13-41-9-2011-K**

Race line: Sign: white 94 Daughters of Queen: 6.8%
 Generation: 4 Hatch date: 09.05.2011 Workers: 21.7%

A. Pedigree



B. Own performance

| Performance test year | No. of the colony 9 | | | comparable colonies at the apiary | |
|---|---------------------|-----------------|---------|-----------------------------------|------------------|
| | kg | % | Ranking | number | Yield average kg |
| | 131 | 117.4 | 1 | 6 | 111.6 |
| | Assessment* | Breeding values | | | Reliability |
| Total breeding value¹ | - | 117 | | | |
| Honey yield | - | 125 | | | 0.24 |
| Defensive behavior | 4 | 113 | | | 0.4 |
| Steadiness on comb | 3.90 | 114 | | | 0.44 |
| Swarming drive | 3.90 | 120 | | | 0.24 |
| Varroa | - | (105) | | | 0.12 |
| Performance index | - | 0 | | | |
| Robustness in winter | 3.90 | | 70% | 100% | 170% |
| Development in Spring | 3.80 | | | | |
| Colony strength | 3.90 | | | | |

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-13-41-9-2011-K

Page 2

Performance of the sisters

Amount of checked sisters: 4

| 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-13-41-8-2011 | DE-13-41 | 1 | 102 | 124.2 | 114 | 3.8 | 99 | 3.7 | 99 | 3.5 | 95 | (99) | |
| DE-13-41-9-2011-K | DE-13-41 | 1 | 117 | 131 | 125 | 4 | 113 | 3.9 | 114 | 3.9 | 120 | (105) | |
| DE-13-41-10-2011 | DE-13-41 | 1 | 94 | 96.1 | 87 | 3.9 | 99 | 3.7 | 99 | 3.5 | 95 | (96) | |
| DE-13-41-18-2011 | DE-13-41 | 1 | 101 | 120 | 110 | 3.8 | 98 | 3.7 | 99 | 3.5 | 100 | (99) | |