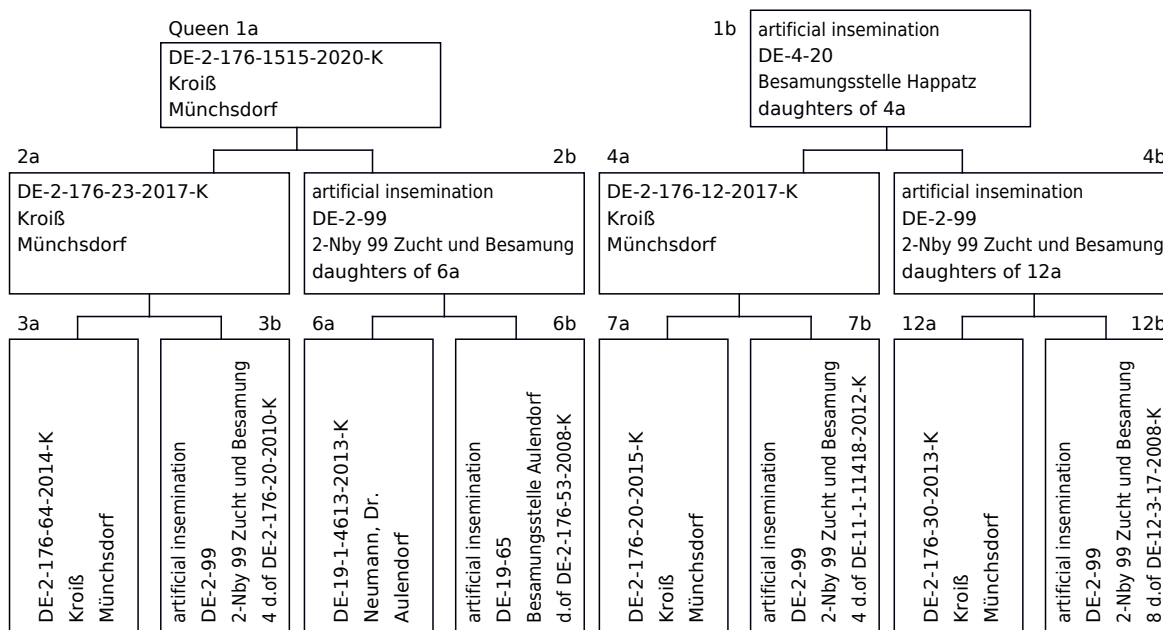


Tester of the queen: Happatz, Maik, 03185 Heinersbrück, DE-4-307, Apiary 1
Breeder of the queen: Kroiß, Alois, 94439 Münchsdorf, DE-2-176
1a Studbook number: **DE-2-176-1515-2020-K**

Race line: Sign: blue 66 Daughters of Queen: 2.1%
Generation: Hatch date: Workers: 4.3%

A. Pedigree



B. Own performance

| Performance test year | No. of the colony 44 | | | comparable colonies at the apiary | |
|---|----------------------|-----------------|---------|-----------------------------------|------------------|
| | kg | % | Ranking | number | Yield average kg |
| | 48 | 123.4 | 2 | 34 | 38.9 |
| | Assessment* | Breeding values | | | Reliability |
| Total breeding value¹ | - | 125 | | | |
| Honey yield | - | 128 | | | 0.45 |
| Defensive behavior | 3.80 | 121 | | | 0.55 |
| Steadiness on comb | 3.80 | 120 | | | 0.55 |
| Swarming drive | 3.40 | 107 | | | 0.5 |
| Varroa | - | 121 | | | 0.51 |
| Performance index | - | 122 | | | 0.45 |
| Robustness in winter | 4 | | 70% | 100% | 170% |
| Development in Spring | 3.60 | | | | |
| Colony strength | 3.70 | | | | |

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-2-176-1515-2020-K

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Performance of the sisters

Amount of checked sisters: 7

| 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-2-176-1503-2020 | DE-4-307 | 1 | 118 | 33 | 119 | 3.1 | 119 | 3 | 110 | 2.6 | 107 | 119 | 111 |
| DE-2-176-1504-2020 | DE-4-307 | 1 | 122 | 38 | 123 | 3.7 | 119 | 3.4 | 116 | 3.6 | 107 | 119 | 119 |
| DE-2-176-1505-2020 | DE-4-307 | 1 | 118 | 39 | 122 | 3 | 111 | 3.1 | 110 | 2.9 | 101 | 118 | 113 |
| DE-2-176-1506-2020 | DE-4-307 | 1 | 122 | 36 | 123 | 3 | 113 | 3.4 | 114 | 4 | 109 | 121 | 117 |
| DE-2-176-1507-2020 | DE-4-307 | 1 | 123 | 42 | 125 | 3.7 | 118 | 3.4 | 116 | 3.6 | 107 | 119 | 119 |
| DE-2-176-1508-2020 | DE-4-307 | 1 | 124 | 44 | 126 | 3.7 | 118 | 3.4 | 116 | 3.6 | 107 | 121 | 119 |
| DE-2-176-1515-2020-K | DE-4-307 | 1 | 125 | 48 | 128 | 3.8 | 121 | 3.8 | 120 | 3.4 | 107 | 121 | 122 |