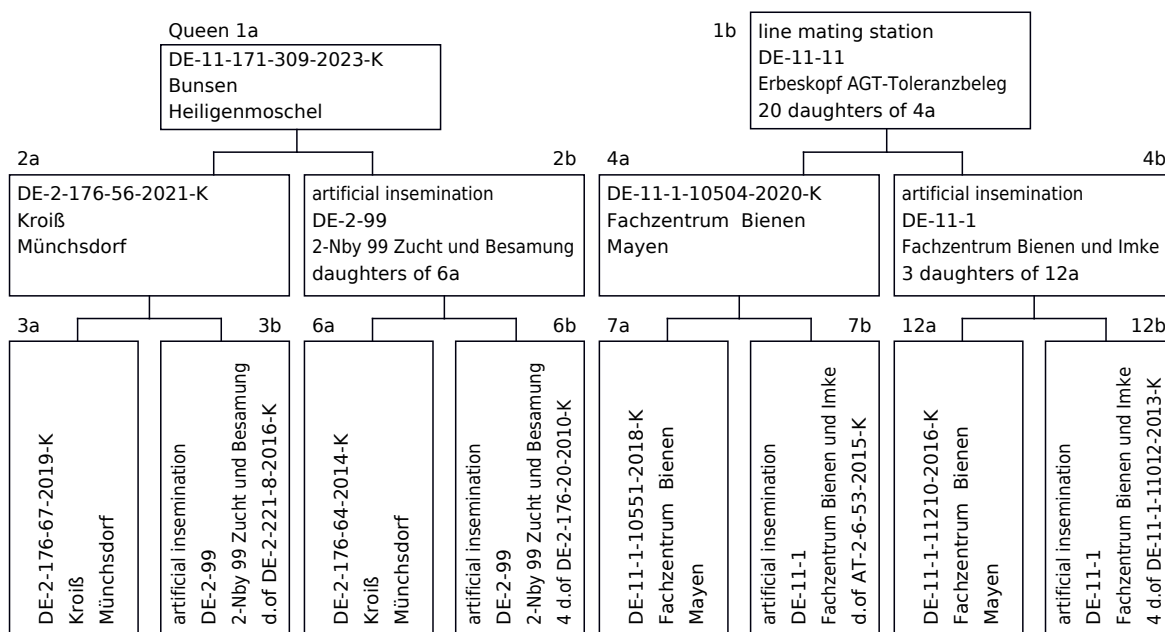


Tester of the queen: Bunsen, Jan Dirk, 67699 Heiligenmoschel, DE-11-171, Apiary 1
 Breeder of the queen: Bunsen, Jan Dirk, 67699 Heiligenmoschel, DE-11-171
1a Studbook number: **DE-11-171-309-2023-K**

Race line: Sign: red 09 Daughters of Queen: 7.7%
 Generation: Hatch date: Workers: 0.6%

A. Pedigree



B. Own performance

| Performance test year | No. of the colony 632 | | | comparable colonies at the apiary | |
|---|-----------------------|-----------------|---------|-----------------------------------|------------------|
| | kg | % | Ranking | number | Yield average kg |
| | 62.1 | 130.2 | 7 | 53 | 47.7 |
| | Assessment* | Breeding values | | | Reliability |
| Total breeding value¹ | - | 117 | | | |
| Honey yield | - | 121 | | | 0.47 |
| Defensive behavior | 3.50 | 102 | | | 0.56 |
| Steadiness on comb | 3 | 105 | | | 0.55 |
| Swarming drive | 4 | 114 | | | 0.5 |
| Varroa | - | 116* | | | 0.44 |
| Performance index | - | 113 | | | 0.47 |
| 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%.

Only one Varroa trait was recorded

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-11-171-309-2023-K

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Performance of the sisters

Amount of checked sisters: 6

| 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-11-171-302-2023 | DE-11-171 | 1 | 111 | 73.4 | 121 | 1.5 | 85 | 2.5 | 106 | 4 | 114 | 116* | 104 |
| DE-11-171-305-2023 | DE-11-171 | 1 | 112 | 76 | 122 | 1.5 | 85 | 2.7 | 106 | 4 | 114 | 117* | 105 |
| DE-11-171-306-2023 | DE-11-171 | 1 | 117 | 58.1 | 120 | 3.5 | 102 | 3 | 106 | 4 | 114 | 116* | 112 |
| DE-11-171-308-2023 | DE-11-171 | 1 | 116 | 59.7 | 117 | 3.7 | 105 | 3.3 | 109 | 2 | 104 | 116* | 110 |
| DE-11-171-309-2023-K | DE-11-171 | 1 | 117 | 62.1 | 121 | 3.5 | 102 | 3 | 105 | 4 | 114 | 116* | 113 |
| DE-11-171-310-2023 | DE-11-171 | 1 | 114 | 71.2 | 120 | 3 | 98 | 3 | 104 | 3 | 109 | 114* | 109 |

Only one Varroa trait was recorded