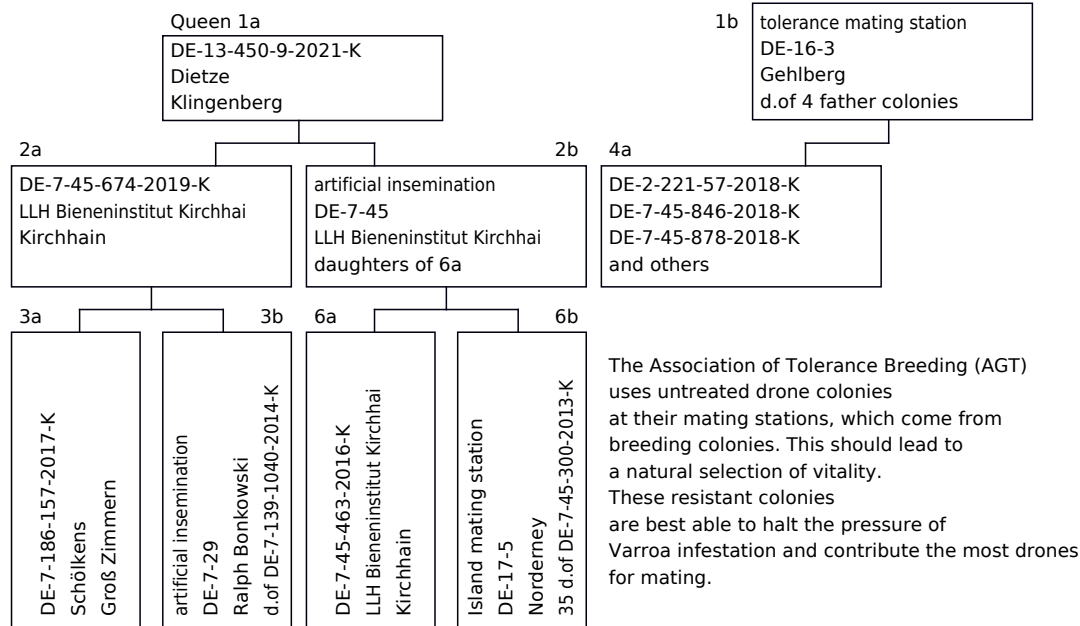


Tester of the queen: Dietze, Karl-Heinz, 01774 Klingenberg, DE-13-450, Apiary 1
 Breeder of the queen: Dietze, Karl-Heinz, 01774 Klingenberg, DE-13-450
1a Studbook number: **DE-13-450-9-2021-K**

Race line: -AGT Sign: white 75 Daughters of Queen: 2.1%
 Generation: Hatch date: 21.06.2021 Workers: 2.6%

A. Pedigree



B. Own performance

| Performance test year | No. of the colony Mag .9 | | | comparable colonies at the apiary | |
|---|--------------------------|-----------------|---------|-----------------------------------|------------------|
| | kg | % | Ranking | number | Yield average kg |
| | 29.6 | 106.4 | 7 | 14 | 27.8 |
| | Assessment* | Breeding values | | | Reliability |
| Total breeding value¹ | - | 107 | ■ | | |
| Honey yield | - | 101 | | | 0.39 |
| Defensive behavior | 3.80 | 108 | ■ | | 0.48 |
| Steadiness on comb | 3 | 102 | | | 0.48 |
| Swarming drive | 3.50 | 97 | ■ | | 0.43 |
| Varroa | - | 110 | ■ | | 0.45 |
| Performance index | - | 102 | | | 0.39 |
| Robustness in winter | 0.71 | 70% 100% 170% | | | |
| Development in Spring | 3 | | | | |
| 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 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-13-450-9-2021-K

Page 2

Performance of the sisters

Amount of checked sisters: 14

| 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-13-450-1-2021-K | DE-13-450 | 1 | 109 | 39 | 104 | 3.5 | 109 | 3.5 | 109 | 3.5 | 98 | 111 | 104 |
| DE-13-450-2-2021 | DE-13-450 | 1 | 108 | 36 | 103 | 3.5 | 108 | 3.5 | 108 | 3.5 | 98 | 110 | 104 |
| DE-13-450-3-2021 | DE-13-450 | 1 | 107 | 17 | 99 | 3 | 104 | 3.5 | 104 | 3.5 | 98 | 110 | 101 |
| DE-13-450-4-2021 | DE-13-450 | 1 | 110 | 42 | 104 | 4 | 111 | 3.5 | 107 | 3.5 | 98 | 111 | 106 |
| DE-13-450-5-2021 | DE-13-450 | 1 | 109 | 29.5 | 101 | 4 | 112 | 3.5 | 107 | 3.5 | 98 | 110 | 105 |
| DE-13-450-6-2021 | DE-13-450 | 1 | 107 | 12 | 97 | 3 | 105 | 3.5 | 104 | 3.5 | 98 | 111 | 101 |
| DE-13-450-7-2021 | DE-13-450 | 1 | 104 | 10.5 | 96 | 3.5 | 106 | 3 | 101 | 3.5 | 97 | 106 | 100 |
| DE-13-450-8-2021 | DE-13-450 | 1 | 107 | 44 | 104 | 3.5 | 105 | 3 | 100 | 3.5 | 97 | 110 | 102 |
| DE-13-450-9-2021-K | DE-13-450 | 1 | 107 | 29.6 | 101 | 3.8 | 108 | 3 | 102 | 3.5 | 97 | 110 | 102 |
| DE-13-450-10-2021 | DE-13-450 | 1 | 110 | 30 | 102 | 4 | 112 | 3.5 | 107 | 3.8 | 100 | 111 | 106 |
| DE-13-450-11-2021 | DE-13-450 | 1 | 108 | 40.5 | 103 | 3.8 | 108 | 3 | 102 | 3.5 | 97 | 110 | 103 |
| DE-13-450-12-2021 | DE-13-450 | 1 | 105 | 12 | 97 | 3 | 105 | 3.5 | 104 | 3.5 | 98 | 108 | 101 |
| DE-13-450-13-2021 | DE-13-450 | 1 | 107 | 27 | 101 | 4 | 112 | 3.5 | 107 | 3.5 | 98 | 105 | 105 |
| DE-13-450-14-2021 | DE-13-450 | 1 | 107 | 20.5 | 99 | 3.5 | 106 | 3 | 101 | 3.8 | 99 | 110 | 101 |