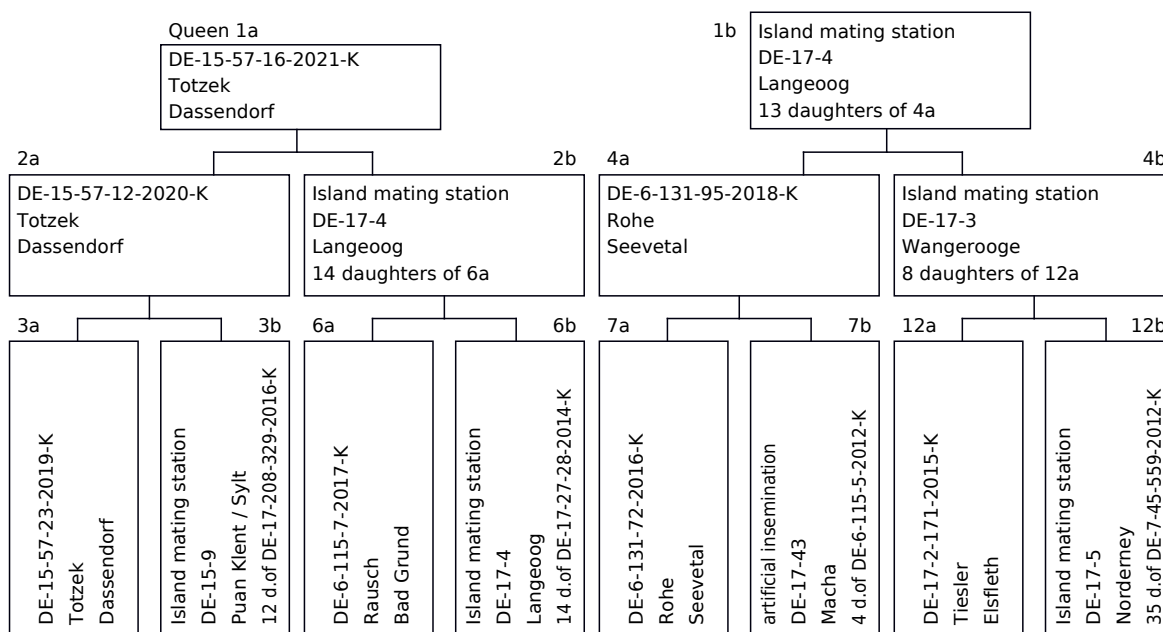


Tester of the queen: Totzek, Hans-Joachim, 21521 Dassendorf, DE-15-57, Apiary 1
 Breeder of the queen: Totzek, Hans-Joachim, 21521 Dassendorf, DE-15-57
1a Studbook number: **DE-15-57-16-2021-K**

Race line: -CP-Holdorf Sign: white 16 Daughters of Queen: 6.1%
 Generation: 20 Hatch date: 10.06.2021 Workers: 3.0%

A. Pedigree



B. Own performance

| Performance test year | No. of the colony 16 | | | comparable colonies at the apiary | |
|---|----------------------|-----------------|---------|-----------------------------------|------------------|
| | kg | % | Ranking | number | Yield average kg |
| | 80 | 150.6 | 1 | 15 | 53.1 |
| | Assessment* | Breeding values | | | Reliability |
| Total breeding value¹ | - | 113 | | | |
| Honey yield | - | 107 | | | 0.42 |
| Defensive behavior | 4 | 112 | | | 0.51 |
| Steadiness on comb | 4 | 112 | | | 0.51 |
| Swarming drive | 4 | 108 | | | 0.47 |
| Varroa | - | 110 | | | 0.48 |
| Performance index | - | 111 | | | 0.42 |
| Robustness in winter | 4 | | 70% | 100% | 170% |
| Development in Spring | 4 | | | | |
| 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-15-57-16-2021-K

Page 2

Performance of the sisters

Amount of checked sisters: 9

| Studbook number | Tester of the queen | Apiary | Total breeding value | Yield kg | Breeding Value Honey | Defensive behavior | Breeding Value Defensive | Calmness during inspection | Breeding Value Calmness | Swarming drive | Breeding Value Swarming | Varroa-index | Performance ndex |
|--------------------|---------------------|--------|----------------------|----------|----------------------|--------------------|--------------------------|----------------------------|-------------------------|----------------|-------------------------|--------------|------------------|
| DE-15-57-11-2021 | DE-15-57 | 1 | 105 | 42 | 98 | 3.5 | Behavior | 3.8 | 109 | 4 | 107 | 101 | 106 |
| DE-15-57-12-2021 | DE-15-57 | 1 | 106 | 54 | 100 | 3.7 | 109 | 3.7 | 108 | 3.6 | 104 | 101 | 106 |
| DE-15-57-13-2021 | DE-15-57 | 1 | 109 | 71 | 104 | 3.8 | 109 | 3.7 | 108 | 4 | 107 | 106 | 108 |
| DE-15-57-14-2021 | DE-15-57 | 1 | 108 | 39 | 98 | 3.9 | 111 | 3.8 | 110 | 4 | 107 | (104) | 108 |
| DE-15-57-15-2021 | DE-15-57 | 1 | 108 | 57 | 101 | 4 | 113 | 4 | 112 | 3.8 | 107 | 102 | 109 |
| DE-15-57-16-2021-K | DE-15-57 | 1 | 113 | 80 | 107 | 4 | 112 | 4 | 112 | 4 | 108 | 110 | 111 |
| DE-15-57-17-2021 | DE-15-57 | 1 | 107 | 61 | 102 | 3.8 | 110 | 3.8 | 110 | 3.9 | 107 | 101 | 108 |
| DE-15-57-18-2021 | DE-15-57 | 1 | 108 | 49 | 100 | 3.9 | 112 | 4 | 112 | 3.8 | 106 | 103 | 109 |
| DE-15-57-19-2021 | DE-15-57 | 1 | 106 | 34 | 95 | 3.7 | 109 | 3.7 | 108 | 3.3 | 103 | 104 | 104 |