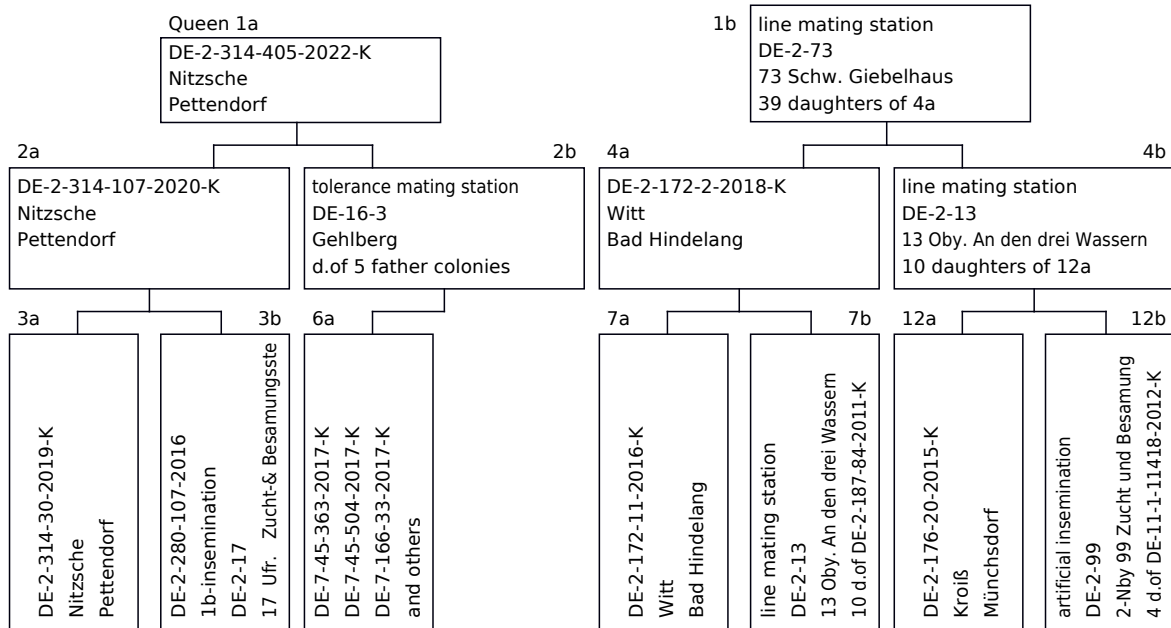


Tester of the queen: Nitzsche, Tilo, 93186 Pettendorf, DE-2-314, Apiary 4
 Breeder of the queen: Nitzsche, Tilo, 93186 Pettendorf, DE-2-314
1a Studbook number: **DE-2-314-405-2022-K**

Race line: -70 Sign: yellow 17 Daughters of Queen: 4.8%
 Generation: 3 Hatch date: 21.6.2022 Workers: 1.4%

A. Pedigree



B. Own performance

| Performance test year | No. of the colony N 22 | | | comparable colonies at the apiary | | |
|---|------------------------|-----------------|---------|-----------------------------------|------------------|------|
| | kg | % | Ranking | number | Yield average kg | |
| | 62.1 | 93.4 | 3 | 6 | 66.5 | |
| | Assessment* | Breeding values | | | Reliability | |
| Total breeding value¹ | - | 108 | ■ | | | |
| Honey yield | - | 110 | ■ | | | 0.4 |
| Defensive behavior | 3.79 | 101 | ■ | | | 0.5 |
| Steadiness on comb | 4 | 99 | ■ | | | 0.5 |
| Swarming drive | 4 | 105 | ■ | | | 0.46 |
| Varroa | - | 109 | ■ | | | 0.46 |
| Performance index | - | 104 | ■ | | | 0.4 |
| Robustness in winter | 1 | 70% 100% 170% | | | | |
| Development in Spring | 3 | | | | | |
| Colony strength | 1 | | | | | |

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-2-314-405-2022-K

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Performance of the sisters

Amount of checked sisters: 12

| 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-2-314-103-2022 | DE-2-314 | 1 | 100 | 50.9 | 109 | 3.6 | 94 | 3.8 | 97 | 3 | 105 | 97 | 100 |
| DE-2-314-105-2022 | DE-2-314 | 1 | 101 | 69 | 113 | 3.1 | 94 | 4 | 96 | 3 | 98 | 100 | 100 |
| DE-2-314-201-2022 | DE-2-314 | 2 | 106 | 26 | 110 | 3.5 | 98 | 4 | 97 | 4 | 105 | 107 | 103 |
| DE-2-314-301-2022 | DE-2-314 | 3 | 104 | 20.7 | 109 | 3.5 | 101 | 4 | 100 | 4 | 105 | 101 | 104 |
| DE-2-314-302-2022 | DE-2-314 | 3 | 99 | 12.3 | 105 | 3.6 | 96 | 2.8 | 89 | 4 | 102 | 99 | 98 |
| DE-2-314-400-2022 | DE-2-314 | 4 | 99 | 43.7 | 106 | 3.8 | 100 | 4 | 98 | 3 | 98 | 96 | 101 |
| DE-2-314-402-2022 | DE-2-314 | 4 | 101 | 57.7 | 108 | 2.9 | 90 | 3.6 | 91 | 3 | 97 | 105 | 96 |
| DE-2-314-404-2022 | DE-2-314 | 4 | 102 | 56.8 | 109 | 4 | 102 | 4 | 100 | 4 | 106 | 97 | 105 |
| DE-2-314-405-2022-K | DE-2-314 | 4 | 108 | 62.1 | 110 | 3.8 | 101 | 4 | 99 | 4 | 105 | 109 | 104 |
| DE-2-397-1-2022 | DE-2-397 | 3 | 106 | | 112 | | 103 | | 100 | | 106 | 103 | 106 |
| DE-2-314-4-2022 | DE-2-752 | 1 | 103 | | 112 | | 99 | | 96 | | 104 | 100 | 103 |
| DE-2-314-6-2022 | DE-2-752 | 1 | 101 | | 108 | | 94 | | 90 | | 102 | 103 | 98 |