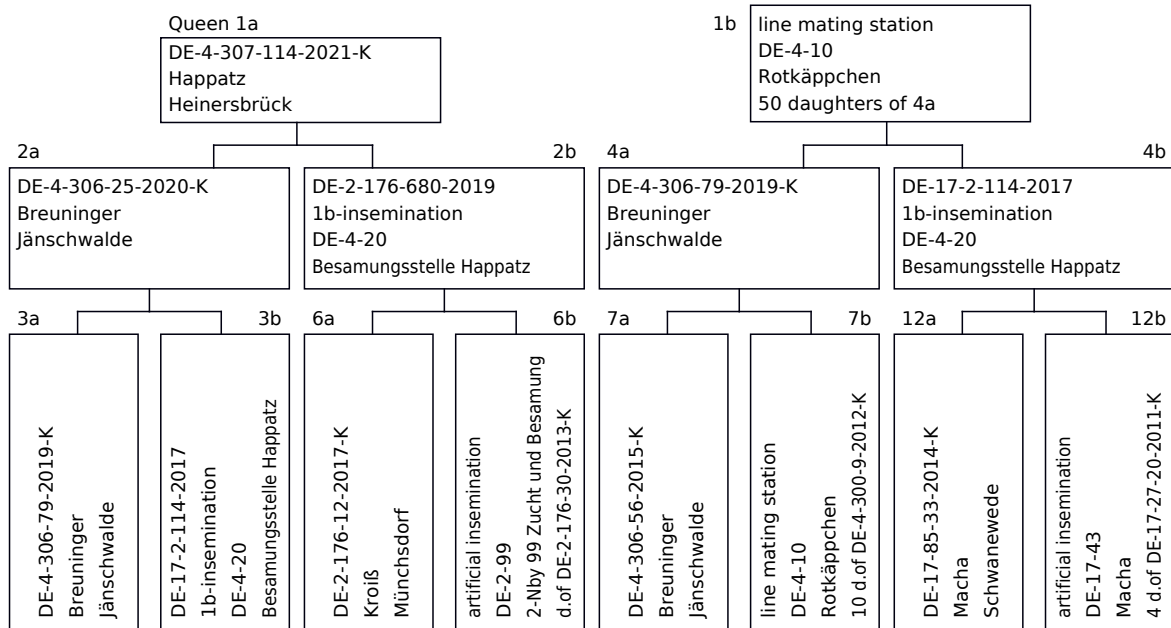


Tester of the queen: Happatz, Maik, 03185 Heinersbrück, DE-4-307, Apiary 4
 Breeder of the queen: Happatz, Maik, 03185 Heinersbrück, DE-4-307
1a Studbook number: **DE-4-307-114-2021-K**

Race line: Sign: white
 Generation: Hatch date: Daughters of Queen: 0.9%
 Workers: 20.3%

A. Pedigree



B. Own performance

| Performance test year | No. of the colony | | | comparable colonies at the apiary | |
|---|-------------------|-----------------|---------|-----------------------------------|------------------|
| | kg | % | Ranking | number | Yield average kg |
| | 54.5 | 105.8 | 6 | 21 | 51.5 |
| | Assessment* | Breeding values | | | Reliability |
| Total breeding value¹ | - | 138 | | | |
| Honey yield | - | 141 | | | 0.53 |
| Defensive behavior | 3.70 | 140 | | | 0.66 |
| Steadiness on comb | 3.80 | 140 | | | 0.66 |
| Swarming drive | 4 | 122 | | | 0.6 |
| Varroa | - | 123 | | | 0.6 |
| Performance index | - | 141 | | | 0.53 |
| Robustness in winter | 3.50 | | 70% | 100% | 170% |
| Development in Spring | 3.50 | | | | |
| Colony strength | 3.50 | | | | |

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-4-307-114-2021-K

Page 2

Performance of the sisters

Amount of checked sisters: 10

| 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-4-307-111-2021-D | DE-4-307 | 4 | 138 | 49.2 | 138 | 4 | 138 | 3.8 | 138 | 4 | 122 | 122 | 141 |
| DE-4-307-112-2021-D | DE-4-307 | 4 | 137 | 57.4 | 142 | 3.6 | 138 | 3.5 | 137 | 4 | 121 | 122 | 140 |
| DE-4-307-113-2021-D | DE-4-307 | 4 | 135 | 57.4 | 141 | 3 | 134 | 3.5 | 135 | 3 | 116 | 122 | 136 |
| DE-4-307-114-2021-K | DE-4-307 | 4 | 138 | 54.5 | 141 | 3.7 | 140 | 3.8 | 140 | 4 | 122 | 123 | 141 |
| DE-4-307-115-2021-D | DE-4-307 | 4 | 137 | 54.5 | 140 | 3.8 | 139 | 3.5 | 138 | 3.5 | 119 | 123 | 139 |
| DE-4-307-116-2021-D | DE-4-307 | 4 | 134 | 46.8 | 135 | 3.6 | 139 | 3.8 | 140 | 3 | 117 | 119 | 138 |
| DE-4-307-117-2021-D | DE-4-307 | 4 | 134 | 50.4 | 138 | 3.2 | 136 | 3.5 | 136 | 3.5 | 119 | 119 | 137 |
| DE-4-307-118-2021-D | DE-4-307 | 4 | 130 | 48.5 | 135 | 3.2 | 134 | 3 | 133 | 3 | 116 | 116 | 134 |
| DE-4-307-119-2021-D | DE-4-307 | 4 | 132 | 54.1 | 139 | 3.4 | 135 | 3.2 | 134 | 3.1 | 116 | 118 | 136 |
| DE-4-307-120-2021-D | DE-4-307 | 4 | 134 | 49.2 | 136 | 3 | 134 | 3.5 | 136 | 3 | 116 | 122 | 135 |