

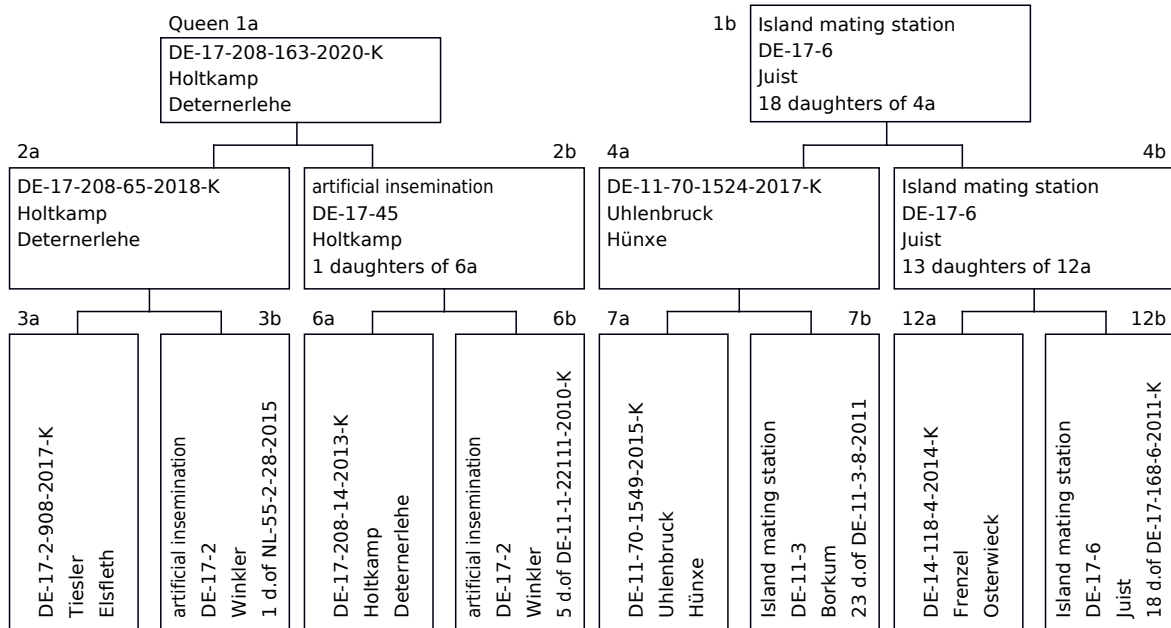
Tester of the queen: Holtkamp, Helmut, 26847 Deternerlehe, DE-17-208, Apiary 3
Breeder of the queen: Holtkamp, Helmut, 26847 Deternerlehe, DE-17-208
1a Studbook number: **DE-17-208-163-2020-K**

Race line: -22
Generation: 4

Sign: blue +
Hatch date: 20.06.2020

Daughters of
Queen: 3.6%
Workers: 0.6%

A. Pedigree



B. Own performance

Performance test year	No. of the colony V389			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	69	109.3	4	10	63.1
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	119			
Honey yield	-	110			0.47
Defensive behavior	4	113			0.54
Steadiness on comb	4	118			0.56
Swarming drive	4	113			0.51
Varroa	-	115			0.53
Performance index	-	116			0.47
Robustness in winter	3.50		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-17-208-163-2020-K

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Performance of the sisters

Amount of checked sisters: 13

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-17-208-77-2021	DE-17-208	1	132	34.1	114	3.5	114	3.5	114	4	123	123	131
DE-17-208-78-2021	DE-17-208	2	132	33.5	113	4	136	4	136	4	127	121	133
DE-17-208-79-2021	DE-17-208	4	129	25.2	111	4	134	4	137	4	124	118	130
DE-17-208-80-2021	DE-17-208	4	121	24.1	108	3	119	2	118	4	120	118	119
DE-17-208-76-2021	DE-17-208	5	130	36.9	113	4	132	4	135	4	124	120	130
DE-17-208-75-2021	DE-17-208	6	131	51.5	115	3.5	132	4	136	4	124	122	131
DE-17-208-164-2020	DE-17-208	1	119	14	107	4	121	4	125	2	105	115	117
DE-17-208-161-2020	DE-17-208	3	119	70.9	111	4	113	4	118	4	113	115	116
DE-17-208-162-2020	DE-17-208	3	118	70.4	111	4	113	4	118	4	113	115	116
DE-17-208-163-2020-K	DE-17-208	3	119	69	110	4	113	4	118	4	113	115	116
DE-17-208-165-2020	DE-17-208	3	119	94.2	114	4	113	4	117	4	114	115	117
DE-17-208-166-2020	DE-17-208	3	113	53.8	107	4	105	3	107	4	111	114	109
DE-17-208-167-2020	DE-17-208	3	118	66.9	110	4	113	4	118	4	113	114	116