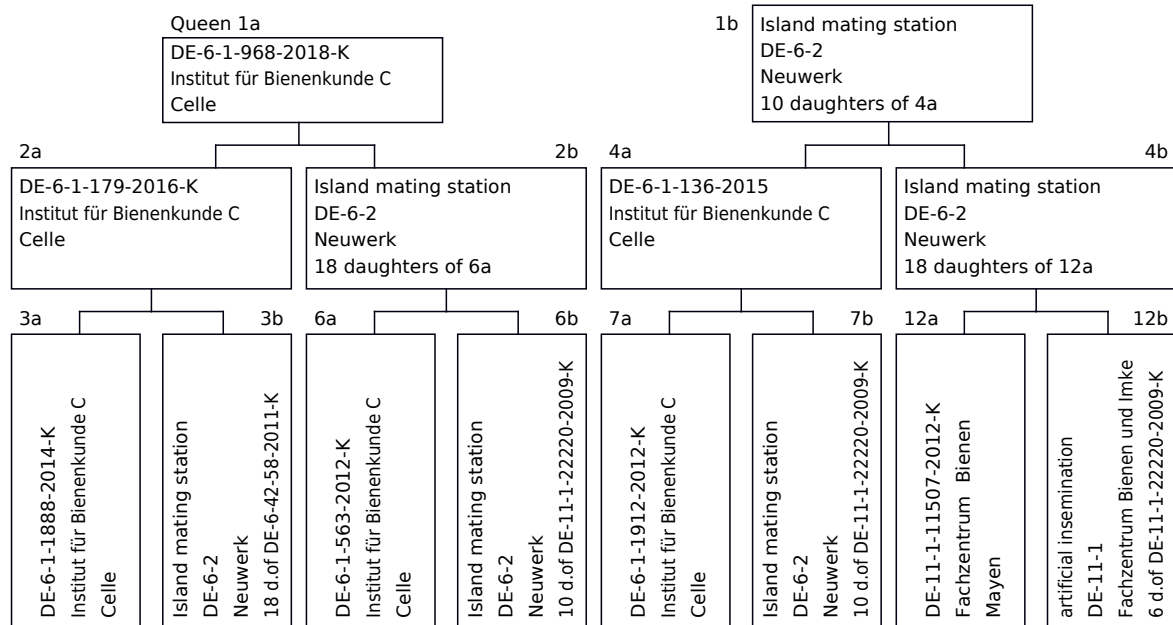


Tester of the queen: Institut für Bienenkunde Celle, 29221 Celle, DE-6-1, Apiary 1
 Breeder of the queen: Institut für Bienenkunde Celle, 29221 Celle, DE-6-1
1a Studbook number: **DE-6-1-968-2018-K**

Race line: -20 Sign: red Daughters of Queen: 5.7%
 Generation: Hatch date: Workers: 5.6%

A. Pedigree



B. Own performance

Performance test year	No. of the colony			comparable colonies at the apiary	
	kg	%	Ranking	number	Yield average kg
	56.9	116.1	15	67	49.0
	Assessment*	Breeding values			Reliability
Total breeding value¹	-	90	■		
Honey yield	-	92	■		0.44
Defensive behavior	4	88	■		0.55
Steadiness on comb	4	87	■		0.54
Swarming drive	4	91	■		0.51
Varroa	-	(94)	■		0.33
Performance index	-	88	■		0.44
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 P

Use only for test breeding. The offspring of these colonies should not circulate among other bees.

Breeding selection report DE-6-1-968-2018-K

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Performance of the sisters

Amount of checked sisters: 20

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-6-1-882-2018	DE-6-1	1	90	41.5	87	4	87	4	87	4	87	(94)	87
DE-6-1-888-2018	DE-6-1	1	91	66.3	95	4	88	4	88	4	91	(94)	89
DE-6-1-912-2018	DE-6-1	1	90	52.3	91	4	89	4	87	4	91	(94)	88
DE-6-1-915-2018	DE-6-1	1	90	51.2	90	4	89	4	87	4	91	(94)	88
DE-6-1-920-2018	DE-6-1	1	91	63.2	94	4	88	4	87	4	91	(94)	88
DE-6-1-945-2018	DE-6-1	1	89	54	91	4	88	4	87	3.5	88	(94)	86
DE-6-1-951-2018	DE-6-1	1	88	65.9	91	4	86	4	86	3	81	(94)	84
DE-6-1-964-2018	DE-6-1	1	90	52.3	91	4	89	4	87	4	91	(94)	88
DE-6-1-965-2018	DE-6-1	1	86	42.5	87	3	80	4	83	3.5	87	(94)	82
DE-6-1-967-2018	DE-6-1	1	86	40.6	87	3	80	4	83	3.5	87	(94)	82
DE-6-1-968-2018	DE-6-1	1	90	56.9	92	4	88	4	87	4	91	(94)	88
DE-6-1-2167-2018	DE-6-1	1	89	60.6	89	4	87	4	85	4	94	(94)	87
DE-6-1-898-2018	DE-17-112	1	86		90		80		79		86	94	81
DE-6-1-937-2018	DE-17-112	1	85		87		80		80		86	93	81
DE-6-1-943-2018	DE-17-112	3	84		88		77		75		85	94	79
DE-6-1-949-2018	DE-17-112	3	90		90		88		88		90	94	87
DE-6-1-970-2018	DE-17-112	3	90		91		88		88		90	93	88
DE-6-1-1004-2018	DE-17-112	3	90		88		88		88		90	95	87