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**Zootechnical certificate, in accordance with Regulation (EU) 2016/1012,
 for trade in semen of purebred breeding animals of the following species:
 (a) bovine species (Bos Taurus, Bos indicus, Bubalus bubalis)**



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Certificate number: 1019973476109800

A. Information on the donor male purebred breeding animal

1. Name of issuing authority Danish Agriculture & Food Council, SEGES, kundecenter@seges.dk	
2. Name of breeding book Herdbook for Danish Holstein	3. Name of breed of donor male Danish Holstein
4. Class within the main section of the breeding book where donor male is entered Main section	
5. Breeding book number of donor male 260557	6. Not relevant for cattle
7. IDENTIFICATION OF DONOR MALE	8. IDENTITY VERIFICATION
7.1 System EU-legislation	8.1 Method DNA/SNP
7.2 Individual identification number DK 6880304420 260557	8.2 Result Parentage confirmed
7.3 Animal health identification number -----	
7.4 Name VH Review Ranheim	
9. Date and country of birth of donor male 20.09.2018 DK	
10. Name, address of breeder Vagn Kristensen, 7850 Stoholm Jyll	
11. Name, address of owner ,	
12. THE PEDIGREE OF THE DONOR MALE	12.1.1 Paternal Grandsire NLD 548354692 257976 Delta Regard
12.1 Sire DEU 770329056 259178 Review	12.1.2 Paternal Granddam DEU 769910436 KAR Vicky 436
12.2 Dam DK 6880303866	12.2.1 Maternal Grandsire DK 3156306246 257360 VH Lund Lemek
	12.2.2 Maternal Granddam DK 6880303031
13. Information on SEMEN: See attachment	
13.1 Results of performance testing (see other page/attachment)	
13.2 Up-to-date breeding values are to be found at: https://nordic.mloy.fi/navbull	
13.3 Genetic defects of the animal in relation to the breeding programme: BLF; BYF; CDF; CVF; HH1F; HH2F; HH3F; HH4F; HH5F; Genetic peculiarities of the animal in relation to the breeding programme: A2A2; BB Description of genetic traits can be found at: https://www.nordicebv.info/wp-content/uploads/2020/06/Description-of-genetic-traits-in-dairy-cattle.pdf	
14. Validation	
14.1 Done at: Danish Agriculture & Food Council, SEGES	14.2 on: 22.03.2022
14.3 Name and capacity of the signatory	
14.4 Signature	

Danish Agriculture & Food Council
 Jesper Kring
 Jesper Kring
 Head of Herdbook
 SEGES, Cattle



Name

VH Review Ranheim

HB. No.

260557

Herd ID-Ear No.

68803-04420

Interbull ID

HOLDNKM000000260557

Breed

Danish Holstein

Official Pedigree Certificate

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Birth date 19.03.2020

Breeding Values

Rolling base 03-2022

Trait	Current evaluation	Reliability	80	90	100	110	120
NTM	32						
Yield	129	73					
Milk	103	77					
Fat	128	77					
Protein	120	73					
Fertility	95	73					
Birth	95	75					
Calving	101	68					
Udder health	112	75					
Other diseases	100	60					
Hoof health	114	60					
Frame	113						
Feet and legs	106						
Mammary	109						
Milking speed	99						
Temperament	106						
Longevity	119	67					
Youngstock survival	98						

Production Results Daughters

No. daughters/No. herds	Milk, kg	Fat, kg	Prot, kg	Fat %	Prot %
963	101	73			

EBV

Milk, kg	Fat, kg	Prot, kg
963	101	73



Pedigree confirmed by DNA
Certificate issued 22-03-2022

Pedigree certificate issued in accordance with Commission Decision
2005/379/EC for intra-community trade.

Sire: Review		PGS: Delta Regard		PGSS Vekis Chevrolet		PGSSS Badger Bluff F	
HB. No.	259178	HB. No.	257976	HB. No.	25801	HB. org.	253756
HB. No. origin	770329056	HB. No. origin	548354692	HB. org.	765206109	HOLUSAM0000060996956	
International ID	HOLDEUM000770329056	International ID	HOLNLDM000548354692	HOLNLDM000765206109		PGSSD Chenoa	
Born	06.03.2016	Born	16.11.2013	Country	NETHERLAND	HB. org.	56264510
Country	GERMANY	Country	NETHERLAND	Country	NETHERLAND	HOLUSAF000056264510	
NTM	22	NTM	14			PGSDS Delta Belfast	
				HB. No.	726752911	HB. org.	523728151
				Country	NETHERLAND	PGSDD Walrich Delta	
				Country	NETHERLAND	HB. org.	498739237
				HOLNLD000498739237			
Dam: -		PGD: KAR Vickv 436		PGDS De-Su 11236		PGDSS De Su 521 Boo	
Herd ID-Ear No.	68803-03866	Herd ID-Ear No.	769910436	HB. No.	256098	HB. org.	253856
HB. No. origin	-	HB. No. origin	10.06.2014	HB. org.	70625988	HOLUSAM000066636657	
Born	28.05.2016	Born	10.06.2014	HOLUSAM000070625988		PGDSD De-Su 199	
Country	Denmark	Country	GERMANY	Country	USA	HB. org.	69490353
NTM	26	NTM	12			HOLUSAF000069490353	
Culling date	-	Body	Feet/Legs	Udder			
Body	83						
Feet/Legs	82						
Udder	78						
Total score	81						
Production results		Production results		Production results		Production results	
Average 1,5	9,102	Milk	362	Fat	3,98	Prot	
Best lactation	7,576	308	5,12	4,07			
Lifetime prod.	13,291	679	5,29	5,11	3,98		
Av. 305 d.	7,576	388	308	5,12	4,07		
Production results		Production results		Production results		Production results	
Average 4,7	10,239	Milk	471	Fat	4,60	Prot	
Best lactation	14,350	638	5,21	4,45	3,63		
Lifetime prod.	48,223	2218	1805	4,60	3,74		
Av. 305 d.	9,748	441	362	4,53	3,72		
MGD: -		MGD: -		MGD: -		MGD: -	
Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031
HB. No. origin	-	HB. No. origin	-	HB. No. origin	-	HB. No. origin	-
Born	26.09.2012	Born	26.09.2012	Born	26.09.2012	Born	26.09.2012
Country	Denmark	Country	Denmark	Country	Denmark	Country	Denmark
NTM	11	NTM	11	NTM	11	NTM	11
Body	Feet/Legs	Udder	Feet/Legs	Udder	Feet/Legs	Udder	Feet/Legs
Body			Body		Body		Body
Feet/Legs			Feet/Legs		Feet/Legs		Feet/Legs
Udder			Udder		Udder		Udder
Total score			Total score		Total score		Total score
Total score			Total score		Total score		Total score
MGD: -		MGD: -		MGD: -		MGD: -	
Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031
HB. No. origin	-	HB. No. origin	-	HB. No. origin	-	HB. No. origin	-
Born	26.09.2012	Born	26.09.2012	Born	26.09.2012	Born	26.09.2012
Country	Denmark	Country	Denmark	Country	Denmark	Country	Denmark
NTM	11	NTM	11	NTM	11	NTM	11
Body	Feet/Legs	Udder	Feet/Legs	Udder	Feet/Legs	Udder	Feet/Legs
Body			Body		Body		Body
Feet/Legs			Feet/Legs		Feet/Legs		Feet/Legs
Udder			Udder		Udder		Udder
Total score			Total score		Total score		Total score
Total score			Total score		Total score		Total score
MGD: -		MGD: -		MGD: -		MGD: -	
Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031
HB. No. origin	-	HB. No. origin	-	HB. No. origin	-	HB. No. origin	-
Born	26.09.2012	Born	26.09.2012	Born	26.09.2012	Born	26.09.2012
Country	Denmark	Country	Denmark	Country	Denmark	Country	Denmark
NTM	11	NTM	11	NTM	11	NTM	11
Body	Feet/Legs	Udder	Feet/Legs	Udder	Feet/Legs	Udder	Feet/Legs
Body			Body		Body		Body
Feet/Legs			Feet/Legs		Feet/Legs		Feet/Legs
Udder			Udder		Udder		Udder
Total score			Total score		Total score		Total score
Total score			Total score		Total score		Total score
MGD: -		MGD: -		MGD: -		MGD: -	
Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031
HB. No. origin	-	HB. No. origin	-	HB. No. origin	-	HB. No. origin	-
Born	26.09.2012	Born	26.09.2012	Born	26.09.2012	Born	26.09.2012
Country	Denmark	Country	Denmark	Country	Denmark	Country	Denmark
NTM	11	NTM	11	NTM	11	NTM	11
Body	Feet/Legs	Udder	Feet/Legs	Udder	Feet/Legs	Udder	Feet/Legs
Body			Body		Body		Body
Feet/Legs			Feet/Legs		Feet/Legs		Feet/Legs
Udder			Udder		Udder		Udder
Total score			Total score		Total score		Total score
Total score			Total score		Total score		Total score
MGD: -		MGD: -		MGD: -		MGD: -	
Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031
HB. No. origin	-	HB. No. origin	-	HB. No. origin	-	HB. No. origin	-
Born	26.09.2012	Born	26.09.2012	Born	26.09.2012	Born	26.09.2012
Country	Denmark	Country	Denmark	Country	Denmark	Country	Denmark
NTM	11	NTM	11	NTM	11	NTM	11
Body	Feet/Legs	Udder	Feet/Legs	Udder	Feet/Legs	Udder	Feet/Legs
Body			Body		Body		Body
Feet/Legs			Feet/Legs		Feet/Legs		Feet/Legs
Udder			Udder		Udder		Udder
Total score			Total score		Total score		Total score
Total score			Total score		Total score		Total score
MGD: -		MGD: -		MGD: -		MGD: -	
Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031
HB. No. origin	-	HB. No. origin	-	HB. No. origin	-	HB. No. origin	-
Born	26.09.2012	Born	26.09.2012	Born	26.09.2012	Born	26.09.2012
Country	Denmark	Country	Denmark	Country	Denmark	Country	Denmark
NTM	11	NTM	11	NTM	11	NTM	11
Body	Feet/Legs	Udder	Feet/Legs	Udder	Feet/Legs	Udder	Feet/Legs
Body			Body		Body		Body
Feet/Legs			Feet/Legs		Feet/Legs		Feet/Legs
Udder			Udder		Udder		Udder
Total score			Total score		Total score		Total score
Total score			Total score		Total score		Total score
MGD: -		MGD: -		MGD: -		MGD: -	
Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031
HB. No. origin	-	HB. No. origin	-	HB. No. origin	-	HB. No. origin	-
Born	26.09.2012	Born	26.09.2012	Born	26.09.2012	Born	26.09.2012
Country	Denmark	Country	Denmark	Country	Denmark	Country	Denmark
NTM	11	NTM	11	NTM	11	NTM	11
Body	Feet/Legs	Udder	Feet/Legs	Udder	Feet/Legs	Udder	Feet/Legs
Body			Body		Body		Body
Feet/Legs			Feet/Legs		Feet/Legs		Feet/Legs
Udder			Udder		Udder		Udder
Total score			Total score		Total score		Total score
Total score			Total score		Total score		Total score
MGD: -		MGD: -		MGD: -		MGD: -	
Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031
HB. No. origin	-	HB. No. origin	-	HB. No. origin	-	HB. No. origin	-
Born	26.09.2012	Born	26.09.2012	Born	26.09.2012	Born	26.09.2012
Country	Denmark	Country	Denmark	Country	Denmark	Country	Denmark
NTM	11	NTM	11	NTM	11	NTM	11
Body	Feet/Legs	Udder	Feet/Legs	Udder	Feet/Legs	Udder	Feet/Legs
Body			Body		Body		Body
Feet/Legs			Feet/Legs		Feet/Legs		Feet/Legs
Udder			Udder		Udder		Udder
Total score			Total score		Total score		Total score
Total score			Total score		Total score		Total score
MGD: -		MGD: -		MGD: -		MGD: -	
Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031
HB. No. origin	-	HB. No. origin	-	HB. No. origin	-	HB. No. origin	-
Born	26.09.2012	Born	26.09.2012	Born	26.09.2012	Born	26.09.2012
Country	Denmark	Country	Denmark	Country	Denmark	Country	Denmark
NTM	11	NTM	11	NTM	11	NTM	11
Body	Feet/Legs	Udder	Feet/Legs	Udder	Feet/Legs	Udder	Feet/Legs
Body			Body		Body		Body
Feet/Legs			Feet/Legs		Feet/Legs		Feet/Legs
Udder			Udder		Udder		Udder
Total score			Total score		Total score		Total score
Total score			Total score		Total score		Total score
MGD: -		MGD: -		MGD: -		MGD: -	
Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031	Herd ID-Ear No.	68803-03031
HB. No. origin	-	HB. No. origin	-	HB. No. origin	-	HB. No. origin	-
Born	26.09.2012	Born	26.09.2012	Born	26.09.2012	Born	26.09.2



Birth ID 68803-04420

Animal

Birth ID	68803-04420
DK ID	68803-04420
Herdbook DK	260557
Breed	Danish Holstein
Name	VH Review Ranheim
Sex	Bull
Multiple birth	
Date of birth	20-09-2018
Test	DNA/SNP
Sample Id	446993

Sire

Birth ID	770329056 DEU
DK ID	-
Herdbook DK	259178
Breed	Danish Holstein
Name	Review
Date of birth	06-03-2016
Confirmed by *	DNA/SNP
Sample Id	253717

Dam

Birth ID	68803-03866
DK ID	68803-03866
Breed	Danish Holstein
Name	
Date of birth	28-05-2016
Confirmed by *	DNA/SNP
Sample Id	248038

* Information about Sire and Dam is only printed, if it is confirmed by DNA (microsatellites) or SNP.

SNP

SNP results used for confirmation of parenthood can be requested from SEGES customer service center +45 7015 5015 or kundecenter@seges.dk

DNA - type (Microsatellites)*

BM1824	178 / 188
BM2113	125 / 127
ETH10	213 / 219
ETH225	150 / 150

ETH3	117 / 117
INRA23	210 / 210
SPS115	248 / 260
TGLA122	143 / 149

TGLA126	115 / 117
TGLA227	83 / 97
TGLA53	160 / 168

* Nomenclature is according to ISAG guidelines using comparison animal no.1 from the international comparison test 1997/98. The digit "0" represents a null-allele

Genetic traits

Find descriptions of tests and results on this webpage: <https://www.nordicebv.info/ntm-and-breeding-values/genetic-traits/>

Test (carrier)	Result
No tests	-

Test (free)	Result
BLAD	BLF (Free)
BY	BYF (Free)
CDH	CDF (Free)
CVM	CVF (Free)
HH1	HH1F (Free) *
HH2	HH2F (Free)
HH3	HH3F (Free) *
HH4	HH4F (Free) *
HH5	HH5F (Free)
HH6	HH6F (Free) *
HH7	HH7F (Free) *
RP1	RP1F (Free) *

Genotypes	Result
Beta Casein	A2A2
Kappa Casein	BB
Polled	POF *
Red factor	RDF *
VR	VRF *

* Results are derived from genomic tests

