

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)



Certificate number
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All EU official languages of the zootechnical certificates, including footnotes and notes, are available in EUR-Lex

A. Information on the donor male purebred breeding animal

1. Name of issuing breed society / competent authority

Coöperatie CRV ua, Postbus 454, 6800 AL Arnhem, The Netherlands

Phone : +31 26 389 88 00 Fax : +31 26 389 88 88

Email: coöperatie@crv4all.com

Website: www.cooperatie-crv.nl

2. Name of breeding book

CRV Herd book

3. Name of breed of donor male

Holstein Friesian

4. Class of the main section of the breeding book where donor male is entered

Main Section

5. Breeding book number of donor male NL 948084625

6. Individual identification number for donor mail of the equine species ---

7. Identification of donor male

7.1. System Eartag

7.2. Individual identification number NL 948084625

7.3. Animal health identification number

7.4. Name Delta Kevlar PP

8. Identity verification

8.1. Method DNA

8.2. Result Verified

202300105 (VHL)

9. Date (dd.mm.yyyy) and country of birth of donor male 24.09.2022 The Netherlands

10. Name and address of breeder CRV Giekerk - opfok, Gytsjerk

11. Name and address of owner CRV Afd Foktechniek, Arnhem

12. The pedigree of the donor male

12.1. Sire Delta Fair Play P
CZ 064191256 Main Section

12.1.1. Paternal Grandsire
Willem's-Hoeve Woody
NL 965020507 Main Section

12.1.2. Paternal Granddam
Boekevani Delta Bracha P
NL 938984593 Main Section

12.2. Dam Delta Jenna
NL 572943859 Main Section

12.2.1. Maternal Grandsire
Lowlands Blessing
NL 598753212 Main Section

12.2.2. Maternal Granddam
Delta Jodie
NL 667388727 Main Section

13. Additional information

13.1 Results of performance testing (see other page/attachment)

13.2 Up-to-date results of the genetic evaluation carried out last on (dd.mm.yyyy) 05.04.2023 (Male); 13.04.2023 (Female)

13.3 Genetic defects and genetic peculiarities of the animal in relation to the breeding programme (see other page/attachment)

13.4 Other relevant information on purebred breeding animal (see other page/attachment)

B. Information on SEMEN: See attachment

14. Validation

14.4. Signature

14.1. Done at Arnhem
14.2. on 05.06.2023

14.3. Name and capacity of the signatory J.A.L. BUITING, MANAGER HERDBOOK

Animal

7.4 Name : Delta Kevlar PP
 6 Number : NL 948084625
 3 Breed : Holstein Friesian
 4 Section : Main
 5 Sex : Male
 Milkabil. : 101
 13.3 POS RFF CVF CDF BLF
 7 Ident. : Eartag
 8 Ped.verif : DNA
 9 Born : 24.09.2022
 Country : The Netherlands

13.1 lb Base %R 36 105 104 105 107
 Bv Type : VWi Z23
 lb Base %R 35
 Bv prod. : VWi Z23

Sire

Name : Delta Fair Play P
 Number : CZ 064191256
 Section : Main
 Milkabil. : 100
 Ped.verif : DNA
 Born : 22.08.2020
 Calv.eas. : Average

lb Base %R 72 104 103 108 107
 Bv Type : GFw Z23
 lb Base %R 71
 Bv prod. : GFw Z23

Paternal grand sire

Name : Willem's-Hoeve Woody
 Number : NL 965020507
 Section : Main
 Bv Type : GFw Z23 94 104 103 111 106
 Bv prod. : GFw Z23 89 +1809 +0.12 +0.04
 S : Double W Ranger
 D : Willem's-Hoeve Rita 1626a
 RFF POF CVF CDF LRF
 Born : 27.07.2018BP +490
 NL 661726527
 NL 669016262

Paternal grand dam

Name : Boekevani Delta Bracha P
 Number : NL 938984593
 Section : Main
 Bv Type : GFw Z23 82 101 100 100 105
 Bv prod. : GFw Z23 82 +862 -0.17 -0.03 +20 +27
 1st lac : 2.08 305 9930 3.91 3.47 388 345
 1st lac : 2.08 305 9930 3.91 3.47 388 345
 Lifetime : 2 592 21852 4.01 3.46 875 757
 S : Delta Sunfit P
 D : Walcama Delta Belle
 POS RFF CDF LRF BLF
 Born : 06.12.2018BP +165
 NL 717948417
 NL 653331755

Dam

Name : Delta Jenna
 Number : NL 572943859
 Section : Main
 Ped.verif : DNA
 Born : 19.10.2020

RFC POC CDF LRF BLF
 BP +319
 lb Base %R 71 99 101 99 104 101
 Bv Type : GFw Z23
 lb Base %R 70
 Bv prod. : GFw Z23
 Age Days
 Prod :
 Lifetime :

Maternal grand sire

Name : Lowlands Blessing
 Number : NL 598753212
 Section : Main
 Bv Type : GFw Z23 83 100 101 105 105
 Bv prod. : GFw Z23 72 +189 +0.28 +0.31 +33 +35
 S : De Biesheuvel Jethro
 D : Bles 292
 RFF POF CVF CDF LRF
 Born : 18.11.2018BP +219
 NL 872395552
 NL 941250553

Maternal grand dam

Name : Delta Jodie
 Number : NL 667388727
 Section : Main
 Bv Type : GFw Z23 81 99 99 104 99
 Bv prod. : GFw Z23 82 +1190 +0.09 +0.09 +59 +50
 1st lac : 2.10 305 12760 4.08 3.43 520 438
 1st lac : 2.10 305 12760 4.08 3.43 520 438
 Lifetime : 2 524 23540 4.07 3.50 958 824
 S : Lowlands Trust
 D : Hoanster Delta Jolina
 RFC POC CDF LRF BLF
 Born : 23.11.2018BP +343
 NL 573352412
 NL 682548315

13.2 Publication date breeding values:

- Male : 05.04.2023
 - Female : 13.04.2023

10 Breeder : CRV Giekerk - opfok
 Gytjerk
 11 Owner : CRV Afd Foktechniek
 Arnhem

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 641

Zootechnical certificate in accordance with Regulation (EU) 2016/1012 for trade in SEMEN of purebred breeding animals of the bovine species



NL 948084625

8462



dr. van haeringen laboratorium b.v.

a VHLGenetics company

Customer number 5

Analysis Certificate

Animal data

Name: KEVLAR PP
Date of birth: 24.09.2022
Sexe: Male
Reg. nr.: NL 948084625
Breed: Holstein Friesian

Sample data

VHL_ID: R232424
Test ID-nr: 724614 1
Material: Hair

Parent data

Dam: NL 572943859 / VHL_ID: R237369 / Delta Jenna
Sire: CZ 064191256 / VHL_ID: R749842 / DELTA FAIR PLAY P

Parentage: Parentage qualifies, based on DNA-typing.

DNA markers:

TGLA227	97	/	99	INRA23	210	/	214
BM2113	125	/		BM1818	266	/	
TGLA53	176	/	186	ETH3	117	/	127
ETH10	219	/	225	ETH225	146	/	150
SPS115	260	/		BM1824	180	/	188
SPS113	141	/	151	CSRM60	102	/	
RM067	92	/		MGTG4B	135	/	
TGLA126	117	/		CSSM66	183	/	193
TGLA122	143	/	163	ILSTS006	292	/	294



D. Mioch, MSc Veterinary Medicine
CEO

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(Certificate nr: R117374/Date of issue: 06.06.2023)

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Pedigree

25 Delta Jodie

CRV
Postbus 454
6800 AL ARNHEM
Tel: 026-3898700

Postbus 454, 6800 AL Arnhem

9434 Melkveebedrijf van Berkum

Processing date 27/06/23

© CRV Arnhem

Animal

Name :Delta Jodie RF+ PO+ CD- LR- BL-
Reg.no :NL 667388727 Born :23/11/18
Id. no. :25 Sex :F
Breed :100%HF Color :BW

Conformation									
M/yr	Bas	%r	F	Ds	U	F&L	M	Tot	
GFw4/23	Z23	81	99	99	104	99		101	
Production									
M/yr	Bas	%r	KgM	%fat	%prot	KgF	KgP	Inet	
GFw4/23	Z23	82	+1190	+0.09	+0.09	+59	+50	+343	
Reproduction status									
M/yr	Bas	%r	KgM	%fat	%prot	KgF	KgP	Inet	
GFw4/23	Z23	82	+1190	+0.09	+0.09	+59	+50	+343	
Age	St								
3.02	Z		83	85	85	80		83	
2.10	420		18235	4.05	3.47	739	632		
			12760	4.08	3.43	520	438		
4.02	140CL		7270	4.11	3.60	299	262		
Total(2)	560		25505	4.07	3.51	1038	894		

Sire

Name :Lowlands Trust RF- PO- CV- CD- LR-
Reg.no :NL 573352412 Born :26/02/17
Breed :100%HF Color :BW

Conformation									
M/yr	Bas	%r	F	Ds	U	F&L	M	Tot	
GFw4/23	Z23	96	94	98	107	100		102	
Production									
M/yr	Bas	%r	KgM	%fat	%prot	KgF	KgP	Inet	
GFw4/23	Z23	95	+1553	-0.34	-0.07	+30	+47	+276	

Dam

Name :Hoanster Delta Jolina PO+ CD- BL- MF- DP-
Reg.no :NL 682548315 Born :29/04/17
Breed :100%HF Color :RB

Conformation									
M/yr	Bas	%r	F	Ds	U	F&L	M	Tot	
GFw4/23	R23	84	100	102	106	103		105	
Production									
M/yr	Bas	%r	KgM	%fat	%prot	KgF	KgP	Inet	
GFw4/23	R23	87	+814	+0.18	+0.22	+53	+49	+320	
Age	Days								
3.09	R		86	87	87	80		85	
2.11	482		16236	4.96	4.15	805	674		
			11084	4.57	4.02	507	446		
4.04	452		15314	5.30	3.96	812	606		
			11368	5.13	3.85	583	438		
5.08	158CL		7277	5.21	3.97	379	289		
Total(3)	1092		38827	5.14	4.04	1996	1569		

Paternal grandsire

Name :Vh Tirsvad Sundance Stu CD- BL- DP-
Reg.no :DK 4141202640 Born :12/08/14
Section :Main(HF)
NVI :124

Milk. Sp.	Calv.eas.	%r	F	Ds	U	F&L	M	Tot	
GFw4/23	Z23	90	87	95	101	94		93	
GFw4/23	Z23	92	+1936	-0.40	-0.22	+39	+44	+290	

Paternal granddam

Name :Truus 592 RF- PO- CD- LR- BL-
Reg.no :NL 730619668 Born :04/01/15
Section :Main(HF)

Milk. Sp.	Calv.eas.	%r	F	Ds	U	F&L	M	Tot	
GFw4/23	Z23	87	99	96	102	101		101	
2.03	Z		85	84	86	85		85	
GFw4/23	Z23	89	+145	+0.34	+0.14	+37	+18	+153	
2.00	289		9959	4.54	3.42	452	341		
3.09	292		13277	4.69	3.44	622	456		
Total(5)	1266		47381	4.70	3.54	2228	1679		

Maternal grandsire

Name :Mars Laurent P RF RF+ PO+ CV- CD- BL-
Reg.no :NL 622046493 Born :20/12/14
Section :Main(HF)
NVI :155

Milk. Sp.	Calv.eas.	%r	F	Ds	U	F&L	M	Tot	
GFw4/23	Z23	93	98	100	106	98		102	
GFw4/23	Z23	96	+122	+0.39	+0.31	+40	+32	+215	

Maternal granddam

Name :Hedra Delta Jonka RF+ PO- CD- LR- BL-
Reg.no :NL 671005551 Born :04/04/15
Section :Main(HF)

Milk. Sp.	Calv.eas.	%r	F	Ds	U	F&L	M	Tot	
GFw4/23	Z23	82	103	103	100	100		101	
GFw4/23	Z23	90	-56	+0.03	+0.04	+0	+2	+4	
3.01	350		8757	4.57	3.55	400	311		
			7836	4.48	3.50	351	275		
4.01	327		9612	4.93	3.73	474	359		
			9243	4.84	3.70	448	342		
5.02	383		13018	4.30	3.54	560	461		
			10573	4.21	3.52	446	372		
Total(3)	1060		31387	4.57	3.60	1434	1131		

Owner :9434 Melkveebedrijf van Berkum
Elahuizen

Breeder :745767 RH van Hemmen
Bellingwolde

Applicant :Afd Foktechniek Ben Aerts
Arnhem



dr. van haeringen laboratorium b.v.

a VHLGenetics company

CRV BV
Postbus 454
6800 AL ARNHEM
Customer number 25296

Analysis Certificate

Animal data

Name: KEVLAR PP
Date of birth: 24.09.2022
Sexe: Male
Reg. nr.: NL 948084625
Breed: Holstein Friesian

Sample data

VHL_ID: R232424
Test ID-nr: 724614 2
Material: Hair

Dam: NL 572943859 / VHL_ID: R237369 / Delta Jenna
Sire: CZ 064191256 / VHL_ID: R749842 / DELTA FAIR PLAY P

R870 - Brachyspina Mut.Test - Date of test: 21.06.2023

Testresult: NO CARRIER

D. Mioch, MSc Veterinary Medicine
CEO

R870 - Brachyspina Mut.Test

Explanation about the result:

NO CARRIER: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring.

CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele.

AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

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(Certificate nr: R117535/Date of issue: 21.06.2023)

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Retouradres Postbus 454, 6800 AL Arnhem

To the competent breeders' Association

23 juni 2023

Certificate of freedom from cloning for breeding cattle

It is hereby confirmed that the animal listed is not the offspring of clones based on the first three generations (parents, grandparents and great-grandparents).

International ID	NLD Reg. Nr.	Name	Shortname
HOLNLDM000948084625	NL 948084625	DELTA KEVLAR PP	KEVLAR PP

Place: Arnhem, The Netherlands

Date: 23 juni 2023

Name in block letters:

J. Veldhuisen, CRV B.V.

