

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 731973806

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 731973806

7.3. Animal health identification number

7.4. Name
Delta Bruiser-Red

8. Identity verification

8.1. Method
DNA

8.2. Result
Verified
202201260 (VHL)

9. Date (dd.mm.yyyy) and country of birth of donor male
07.10.2021 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 Developer
NL 641159099
Main Section

12.1.1. Paternal Grandsire
Delta Skippy
NL 573364710
Main Section

12.1.2. Paternal Granddam
Delta Dunja
NL 613963633
Main Section

12.2. Dam
de Steeg Delta Iefke
NL 621154137
Main Section

12.2.1. Maternal Grandsire
Delta Jacuzzi-Red
NL 666249656
Main Section

12.2.2. Maternal Granddam
Ivette 432
NL 684762955
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)
10.08.2022 (Male); 18.08.2022 (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
03.10.2022

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

Animal

7.4 Name : Delta Bruiser-Red
6 Number : NL 731973806
3 Breed : Holstein Friesian
4 Section : Main
5 Sex : Male
Milkabil. : 99
13.3 RFC POF CVF BLF CDF
7 Ident. : Eartag
8 Ped.verif : DNA
9 Born : 07.10.2021
Country : The Netherlands

13.1 Ib Base %R F T U L M T
Bv Type : VWi Z20 36 104 105 107 106 109

Ib Base %R KgM %F %P KgF KgP
Bv prod. : VWi Z20 38 +336 +0.87 +0.40 +94 +48

14 Service :

14.1 Service date :

Bull

Sire

Name : Delta Developer
Number : NL 641159099
Section : Main
RFC POF CVF BLF CDF
Ped.verif : DNA BP +491
Born : 07.10.2019
Calv.eas. : Average

Milkabil. : 101

Ib Base %R F T U L M T
Bv Type : GFw Z20 72 104 105 109 105 109

Ib Base %R KgM %F %P KgF KgP
Bv prod. : GFw Z20 71 +630 +0.86 +0.43 +108 +63

Paternal grand sire

Name : Delta Skippy
Number : NL 573364710
Section : Main
Bv Type : GFw Z20 94 108 105 110 101
Bv prod. : GFw Z20 91 +658 +0.62 +0.31 +87
S : Beerzedal Paragon
D : Dijkhoeve Delta Silla
RFF POF CVF BLF
Born : 01.03.2017BP
NL 246477
NL 65595

Paternal grand dam

Name : Delta Dunja
Number : NL 613963633
Section : Main
Bv Type : GFw Z20 83 103 105 106 110
Bv prod. : GFw Z20 83 +1364 +0.11 +0.06 +69
1st lac : 3.00 305 13325 3.83 3.59 510
Best lac : 4.00 305C 14699 4.17 3.69 613
Lifetime : 2 656 29894 4.03 3.65 1205
S : Weelder Esperanto
D : de Steeg Delta Dutch
RFC POF BLF CDF
Born : 09.10.2017BP
NL 73828
NL 74505

Dam

Name : de Steeg Delta Iefke
Number : NL 621154137
Section : Main
POF BLF CDF BRF MFF
Ped.verif : DNA BP +381
Born : 08.01.2019

Ib Base %R F T U L M T
Bv Type : GFw R20 73 100 104 106 107 107
Type cl. : R 85 86 86 86 86

Ib Base %R KgM %F %P KgF KgP
Bv prod. : GFw R20 79 +614 +0.69 +0.26 +88 +45

Age Days
Prod : 3.00 237C 7689 4.79 3.97 368 306
Lifetime : 1 237 7689 4.79 3.97 368 306

13.2 Publication date breeding values:

- Male : 10.08.2022
- Female : 18.08.2022

10 Breeder : CRV Giekerk - opfok

Gytsjerk

11 Owner : CRV Afd Foktechniek
Arnhem

103
641

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



14.1 Place : Arnhem
14.2 Date : 03.10.2022
14.3 Name : J.A.L. Buiting
14.4 Signature : MBA Manager Herdbook

NL 731973806



7380

POF BLF CDF MFF
Born : 07.05.2017BP
NL 68767
NL 86821

Maternal grand dam

Name : Ivette 432
Number : NL 684762955
Section : Main
Bv Type : GFw R20 81 102 104 104 104
Bv prod. : GFw R20 84 +263 +0.27 +0.10 +35
1st lac : 2.10 305 10795 4.31 3.57 465
1st lac : 2.10 305 10795 4.31 3.57 465
Lifetime : 1 346 11683 4.41 3.63 516
S : Groenibo Bram
D : Ivette 350
NL 65614
NL 74665

Maternal grand sire

Name : Delta Jacuzzi-Red
Number : NL 666249656
Section : Main
Bv Type : GFw R20 99 100 105 107 107
Bv prod. : GFw R20 94 +1164 +0.73 +0.17 +120
S : Het Meer Livingston
D : Oversticht Delta Jina
POF CVF BLF CDF
Born : 05.04.2017BP
NL 68767
NL 86821



dr. van haeringen **laboratorium b.v.**

a **VHLGenetics** company

Coöperatie Koninklijke CRV u.a
Wassenaarweg 20
6843 NW ARNHEM
Customer number 5

Analysis Certificate

Animal data

Name: BRUISER-RED
Date of birth: 07.10.2021
Sex: Male
Reg. nr.: NL 731973806
Breed: Holstein Friesian

Sample data

VHL_ID: R763741
Test ID-nr: 677680 1
Material: Hair

Parent data

Dam: NL 621154137 / VHL_ID: R675419 / de Steeg Delta Iefke
Sire: NL 641159099 / VHL_ID: R639255 / Delta Developer

Parentage: Parentage qualifies, based on DNA-typing.

DNA markers:

TGLA227	91	/	97	INRA23	208	/	210
BM2113	125	/	139	BM1818	266	/	
TGLA53	160	/	162	ETH3	117	/	129
ETH10	217	/	225	ETH225	146	/	150
SPS115	248	/		BM1824	188	/	
SPS113	141	/	155	CSRM60	96	/	102
RM067	92	/	96	MGTG4B	135	/	141
TGLA126	115	/	117	CSSM66	179	/	189
TGLA122	149	/		ILSTS006	294	/	

D. Mioch, MSc Veterinary Medicine
CEO

VHL exercises the utmost care in performing each of its engagements. No party other than the principal may derive any rights from the results of these engagements, and the principal expressly indemnifies VHL in respect of any third-party claims. VHL policy provides that any complaints must be received within eight days of the completion of an engagement and imposes restrictions on liability. In that respect, VHL refers to its General Conditions, which are applicable to all engagements VHL performs and which were accepted at the time of purchase. These General Conditions can also be reviewed at www.vhlgenetics.com. The work VHL performs is based on the material and/or data it receives from its principal. This report may only be copied in its entirety. The organization is ISO:9001 certified for all her work. This test is based on PCR technology.

Stamboom

6 Ivette 432

Crv
Postbus 454
6800 AL ARNHEM
Tel: 026-3898700

Postbus 454, 6800 AL Arn
Verwerkingsdatum 18/1

177933 VOF Westerhof

© CRV Arnhem

Rund													
Naam	: Ivette 432			PO- BL- CD- MF- DP-									
Lev.nr.	: NL 684762955			Geb.dat. : 07/05/17									
Dienr.	: 6			Geslacht : Vrl									
Rasbalk	: 100%HF			Kleur : RB									
Exterieur	M/jr	Bas	%bt	F	T	U	B	Bs	Ext				
GFw8/21	R20	80		100	104	104	104		105				
Lft	Kst	R		85	87	86	86		86				
Produktie	M/jr	Bas	%bt	KgM	%V	%E	KgV	KgE	Inet				
GFw8/21	R20	82		+429	+0.19	+0.05	+36	+20	+165				
Lft	Dagen	2.10	346	11683	4.41	3.63	516	424					
				10795	4.31	3.57	465	385					
				1528	4.21	3.40	64	52					
				13211	4.39	3.60	580	476					
Totaal(2)	383												

Vader													
Naam	: Groenibo Bram			RF+ PO- CV- BL- CD-									
Lev.nr.	: NL 656149430			Geb.dat. : 23/01/15									
Rasbalk	: 100%HF			Kleur : ZB									
MS	: 97			Geb.vl. : 97									
Exterieur	M/jr	Bas	%bt	F	T	U	B	Bs	Ext				
GFw8/21	R20	96		103	106	104	101		104				
Produktie	M/jr	Bas	%bt	KgM	%V	%E	KgV	KgE	Inet				
GFw8/21	R20	97		+584	+0.01	+0.12	+26	+32	+195				
Lft	Dagen	2.10	346	11683	4.41	3.63	516	424					
				10795	4.31	3.57	465	385					
				1528	4.21	3.40	64	52					
				13211	4.39	3.60	580	476					
Totaal(2)	383												

Vaders vader													
Naam	: Molenkamp Bolt			RF+ CV- BL- CD- BY-									
Lev.nr.	: NL 940147494			Geb.dat. : 08/08/1									
MS	: 96			Geb.vl. : 99									
GFw8/21	R20	99		98	101	106			102				
GFw8/21	R20	99		+620	-0.05	+0.12	+22	+33	+1				
Lft	Dagen	2.10	346	11683	4.41	3.63	516	424					
				10795	4.31	3.57	465	385					
				1528	4.21	3.40	64	52					
				13211	4.39	3.60	580	476					
Totaal(5)	2113												

Vaders moeder													
Naam	: Groenibo 90 Stellando Jane			RF+ BL- CD- DP-									
Lev.nr.	: NL 919701252			Geb.dat. : 18/02/1									
GFw8/21	R20	88		96	103	97	106		106				
Lft	Dagen	2.10	346	11683	4.41	3.63	516	424					
				10795	4.31	3.57	465	385					
				1528	4.21	3.40	64	52					
				13211	4.39	3.60	580	476					
Totaal(5)	2113												

Moeder													
Naam	: Ivette 350			PO- BL- CD- MF- DP-									
Lev.nr.	: NL 746659377			Geb.dat. : 19/06/15									
Rasbalk	: 100%HF			Kleur : RB									
Exterieur	M/jr	Bas	%bt	F	T	U	B	Bs	Ext				
GFw8/21	R20	82		101	101	110	103		107				
Lft	Kst	R		83	83	86	81		83				
Produktie	M/jr	Bas	%bt	KgM	%V	%E	KgV	KgE	Inet				
GFw8/21	R20	85		+302	+0.29	-0.01	+38	+10	+126				
Lft	Dagen	1.10	315	7839	4.39	3.47	344	272					
				7648	4.37	3.46	334	265					
				10238	4.33	3.49	443	358					
				9790	4.27	3.47	418	339					
				10101	4.59	3.57	464	361					
				9763	4.55	3.55	444	347					
				11020	4.99	3.72	550	410					
				9613	4.84	3.63	466	349					
				3003	4.40	3.40	132	102					
Totaal(5)	1474			42201	4.58	3.56	1933	1503					

Moeders vader													
Naam	: Delegate van de Peul			CV- BL- CD- BY- DP-									
Lev.nr.	: NL 663103102			Geb.dat. : 22/03/1									
MS	: 103			Geb.vl. : 99									
GFw8/21	R20	99		102	101	106	101		101				
GFw8/21	R20	99		-993	+0.77	+0.31	+11	-13	-1				
Lft	Dagen	2.10	346	11683	4.41	3.63	516	424					
				10795	4.31	3.57	465	385					
				1528	4.21	3.40	64	52					
				13211	4.39	3.60	580	476					
Totaal(5)	2113												

Moeders moeder													
Naam	: Ivette 273			BL- CD- DP-									
Lev.nr.	: NL 640256128			Geb.dat. : 01/06/1									
GFw8/21	R20	82		94	98	103	105		105				
Lft	Dagen	2.07	R	80	81	86	82		82				
				-24	+0.47	+0.13	+37	+10	+1				
				8911	4.87	3.81	434	339					
				7349	4.70	3.77	346	277					
				7647	5.18	4.06	396	311					
				6944	5.15	4.04	358	281					
				11625	4.90	3.86	570	448					
				9783	4.81	3.79	471	371					
				10063	4.85	3.85	488	387					
				9154	4.74	3.80	434	348					
				2845	4.95	3.87	141	110					
Totaal(5)	1655			41091	4.94	3.88	2029	1595					

Aanvrager : Crv
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: BRUISER-RED
Date of birth: 07.10.2021
Sex: Male
Reg. nr.: NL 731973806
Breed: Holstein Friesian

Sample data

VHL_ID: R763741
Test ID-nr: 677680 3
Material: Hair

Dam: NL 621154137 / VHL_ID: R675419 / de Steeg Delta Iefke
Sire: NL 641159099 / VHL_ID: R639255 / Delta Developer

R870 - Brachyspina Mut. Test - Date of test: 17.10.2022

Testresult: NO CARRIER

D. Mioch, MSc Veterinary Medicine
CEO

R870 - Brachyspina Mut. Test

Explanation about the result:

NO CARRIER: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

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CRV BV
Postbus 454
6800 AL ARNHEM
Customer number 25296

Analysis Certificate

Animal data

Name: BRUISER-RED
Date of birth: 07.10.2021
Sex: Male
Reg. nr.: NL 731973806
Breed: Holstein Friesian

Sample data

VHL_ID: R763741
Test ID-nr: 677680 2
Material: Hair

Dam: NL 621154137 / VHL_ID: R675419 / de Steeg Delta Iefke
Sire: NL 641159099 / VHL_ID: R639255 / Delta Developer

R550 - CVM Test - Date of test: 17.10.2022

Testresult: NO CARRIER

D. Mioch, MSc Veterinary Medicine
CEO

R550 - CVM Test

Explanation about the result:

NO CARRIER: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

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Retouradres Postbus 454, 6800 AL Arnhem

To the competent breeders' Association

25 augustus 2022

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
HOLNLDM000731973806	NL 731973806	DELTA BRUISER-RED	BRUISER

Arnhem, The Netherlands
25 augustus 2022
Place, Date

J. Veldhuisen, CRV B.V.

Name in block letters



Signature, Company