

PARENTAGE SUMMARY

OFFSPRING TESTED		QUALIFYING MOTHER		QUALIFYING FATHER	
OFFSPRING ID	ID TAG	MOTHER ID	ID TAG	FATHER ID	ID TAG
ZOCA2022-35583	BL200325	ZOCA2022-35577	BL150034	ZOCA2022-30613	BL180072
ZOCA2022-30467	BL200342	ZOCA2022-35573	BL120015	ZOBOS20-00445	BL170015
ZOCA2022-30483	BL210327	ZOCA2022-35577	BL150034	ZOBOS20-00446	BL170028
ZOCA2022-35586	BL210335	ZOCA2022-35579	BL160021	ZOBOS20-00446	BL170028
ZOCA2022-35587	BL210348	ZOCA2022-35574	BL130005	ZOCA2022-30616	BL180044
ZOCA2022-35588	BL210377	ZOCA2022-35582	BL180009	ZOCA2022-30614	BL180079
ZOCA2022-35589	BL210378	ZOCA2022-35581	BL170039	ZOCA2022-30614	BL180079
ZOCA2022-35590	BL210384			ZOCA2022-30614	BL180079
ZOCA2022-35592	BL220308	ZOCA2022-35576	BL150013	ZOCA2022-30613	BL180072
ZOCA2022-35593	BL220309	ZOCA2022-35575	BL140032	ZOCA2022-30613	BL180072
ZOCA2022-35596	KBL220310	ZOCA2022-35594	KBL130034	ZOCA2022-30613	BL180072
ZOCA2022-35597	KBL220311	ZOCA2022-35595	KBL140063	ZOCA2022-30613	BL180072
ZOCA2022-35618	WSV210148	ZOCA2022-35608	WSV180029	ZOCA2022-30599	WSV180043
ZOCA2022-35619	WSV210168	ZOCA2022-35612	WSV180047	ZOCA2022-30599	WSV180043
ZOCA2022-35620	WSV210190	ZOCA2022-35606	WSV180024	ZOCA2022-30599	WSV180043
ZOCA2022-35621	WSV210200	ZOCA2022-35614	WSV180058	ZOCA2022-30599	WSV180043
ZOCA2022-35622	WSV210201	ZOCA2022-35603	WSV170034	ZOBOS20-02877	MC180194
ZOCA2022-35623	WSV210205	ZOCA2022-35613	WSV180049	ZOCA2022-30599	WSV180043
ZOCA2022-35624	WSV210222	ZOCA2022-35601	WSV160094	ZOCA2022-30600	WSV180045
ZOCA2022-35625	WSV210223	ZOCA2022-35611	WSV180046	ZOCA2022-30599	WSV180043
ZOCA2022-35626	WSV210241 (1)	ZOCA2022-35610	WSV180041	ZOCA2022-30599	WSV180043
ZOCA2022-35628	WSV220016	ZOCA2022-35604	WSV170197	ZOCA2022-30599	WSV180043
ZOCA2022-35629	WSV220025	ZOCA2022-35599	WSV140082	ZOCA2022-30600	WSV180045
ZOCA2022-35630	WSV220026	ZOCA2022-35609	WSV180034	ZOCA2022-30599	WSV180043
ZOCA2022-35632	WSV220036	ZOCA2022-35615	WSV180098	C19-07437	NFS190093
ZOCA2022-35633	WSV220037	ZOCA2022-35607	WSV180027	C19-07437	NFS190093
ZOCA2022-35634	WSV220038	ZOCA2022-35616	WSV180119	C19-07437	NFS190093
ZOCA2022-35635	WSV220039	ZOCA2022-35605	WSV170206	C19-07437	NFS190093
ZOCA2022-35636	WSV220040	ZOCA2022-35602	WSV160171	C19-07437	NFS190093



Dr Christiaan Labuschagne
 Genomics Manager

Print Date:

2022/09/01



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Postal Address:

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info@ZooOmics.co.za
525 Justice Mahomed Str, Muckleneuk, Pretoria 0002
PO Box 14356, Hatfield, Pretoria 0028

DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	BL200342_2
Breed	Charolais
DNA Profile Certificate Number	ZOCA2022-30467_2-DC

qualifies as the offspring of

Male

Animal ID/Name	BL170015
Breed	CHAROLAIS
DNA Profile Certificate Number	ZOBOS20-00445-DC

&

Female

Animal ID/Name	BL120015
Breed	Charolais
DNA Profile Certificate Number	ZOCA2022-35573-DC

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤ 1 mismatched marker.

Dr Christiaan Labuschagne
Genomics Manager

01 September 2022

Date

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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	BL210327_2
Breed	Charolais
DNA Profile Certificate Number	ZOCA2022-30483_2-DC

qualifies as the offspring of

Male

Animal ID/Name	BL170028
Breed	CHAROLAIS
DNA Profile Certificate Number	ZOBOS20-00446-DC

&

Female

Animal ID/Name	BL150034
Breed	Charolais
DNA Profile Certificate Number	ZOCA2022-35577-DC

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤ 1 mismatched marker.

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Genomics Manager

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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	BL200325
Breed	Charolais
DNA Profile Certificate Number	ZOCA2022-35583-DC

qualifies as the offspring of

Male

Animal ID/Name	BL180072
Breed	Charolais
DNA Profile Certificate Number	

&

Female

Animal ID/Name	BL150034
Breed	Charolais
DNA Profile Certificate Number	ZOCA2022-35577-DC

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤ 1 mismatched marker.

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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	BL210335
Breed	Charolais
DNA Profile Certificate Number	ZOCA2022-35586-DC

qualifies as the offspring of

Male

Animal ID/Name	BL170028
Breed	CHAROLAIS
DNA Profile Certificate Number	ZOBOS20-00446-DC

&

Female

Animal ID/Name	BL160021
Breed	Charolais
DNA Profile Certificate Number	ZOCA2022-35579-DC

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤ 1 mismatched marker.

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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	BL210348
Breed	Charolais
DNA Profile Certificate Number	ZOCA2022-35587-DC

qualifies as the offspring of

Male

Animal ID/Name	BL180044
Breed	Charolais
DNA Profile Certificate Number	

&

Female

Animal ID/Name	BL130005
Breed	Charolais
DNA Profile Certificate Number	ZOCA2022-35574-DC

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤ 1 mismatched marker.

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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	BL210377
Breed	Charolais
DNA Profile Certificate Number	ZOCA2022-35588-DC

qualifies as the offspring of

Male

Animal ID/Name	BL180079
Breed	Charolais
DNA Profile Certificate Number	

&

Female

Animal ID/Name	BL180009
Breed	Charolais
DNA Profile Certificate Number	ZOCA2022-35582-DC

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤ 1 mismatched marker.

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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	BL210378
Breed	Charolais
DNA Profile Certificate Number	ZOCA2022-35589-DC

qualifies as the offspring of

Male

Animal ID/Name	BL180079
Breed	Charolais
DNA Profile Certificate Number	

&

Female

Animal ID/Name	BL170039
Breed	Charolais
DNA Profile Certificate Number	ZOCA2022-35581-DC

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤ 1 mismatched marker.

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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	BL210384
Breed	Charolais
DNA Profile Certificate Number	ZOCA2022-35590-DC

qualifies as the offspring of

Male

Animal ID/Name	BL180079
Breed	Charolais
DNA Profile Certificate Number	

&

Female

Animal ID/Name	
Breed	
DNA Profile Certificate Number	

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤ 1 mismatched marker.

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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	BL220308
Breed	Charolais
DNA Profile Certificate Number	ZOCA2022-35592-DC

qualifies as the offspring of

Male

Animal ID/Name	BL180072
Breed	Charolais
DNA Profile Certificate Number	

&

Female

Animal ID/Name	BL150013
Breed	Charolais
DNA Profile Certificate Number	ZOCA2022-35576-DC

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤ 1 mismatched marker.

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Genomics Manager

01 September 2022

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DNA PARENTAGE CERTIFICATE

Test Animal

Animal ID/Name	BL220309
Breed	Charolais
DNA Profile Certificate Number	ZOCA2022-35593-DC

qualifies as the offspring of

Male

Animal ID/Name	BL180072
Breed	Charolais
DNA Profile Certificate Number	

&

Female

Animal ID/Name	BL140032
Breed	Charolais
DNA Profile Certificate Number	ZOCA2022-35575-DC

Based on the results from genetic profiles of the individually listed animals after categorical allocation of the supplied biological samples. Allocation is based on a confidence level of 95% (based on the population tested) and ≤ 1 mismatched marker.

Dr Christiaan Labuschagne
Genomics Manager

01 September 2022

Date

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	BL220309
BREED	Charolais
SPECIES	Bovine
GENDER	Female
OWNER	ZELPY 2648 PTY LTD
LAB. NO	ZOCA2022-35593

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	89	89
BM2113	127	131
TGLA053	Not Detected	
ETH10	217	217
ILSTS011	268	268
SPS113	Not Detected	
RM067	92	96
TGLA126	123	123
TGLA122	147	153
INRA023	202	218

STR Marker	Allele 1	Allele 2
BM1818	262	264
ETH003	125	125
ETH225	148	148
BM1824	182	188
SPS115	248	248
CSRM060	102	104
MGTG48	135	135
CSSM066	183	189
ILSTS006	296	296

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



Dr Christiaan Labuschagne
 Genomics Manager

01 September 2022

Date

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06-Mar-15

ZOCA2022-35593-DC

01-Sep-22

****Disclaimer**

Whatever is contained in this report is subject to the following:

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	BL220308
BREED	Charolais
SPECIES	Bovine
GENDER	Male
OWNER	ZELPY 2648 PTY LTD
LAB. NO	ZOCA2022-35592

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	97
BM2113	127	137
TGLA053	Not Detected	
ETH10	217	217
ILSTS011	268	268
SPS113	Not Detected	
RM067	90	96
TGLA126	Not Detected	
TGLA122	153	153
INRA023	206	208

STR Marker	Allele 1	Allele 2
BM1818	262	270
ETH003	117	119
ETH225	148	148
BM1824	178	182
SPS115	248	256
CSRM060	98	102
MGTG4B	135	135
CSSM066	183	191
ILSTS006	Not Detected	

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



Dr Christiaan Labuschagne
Genomics Manager

01 September 2022

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ISAG
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06-Mar-15

ZOCA2022-35592-DC

01-Sep-22

****Disclaimer**

Whatever is contained in this report is subject to the following:

DNA PROFILE CERTIFICATE

General Information:

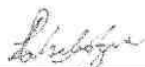
Test Animal	
ANIMAL ID/NAME	BL210384
BREED	Charolais
SPECIES	Bovine
GENDER	Male
OWNER	ZELPY 2648 PTY LTD
LAB. NO	ZOCA2022-35590

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	89
BM2113	125	127
TGLA053	Not Detected	
ETH10	217	217
ILSTS011	268	268
SPS113	Not Detected	
RM067	90	96
TGLA126	115	115
TGLA122	147	153
INRA023	206	212

STR Marker	Allele 1	Allele 2
BM1818	264	266
ETH003	117	125
ETH225	148	150
BM1824	178	188
SPS115	248	256
CSRM060	102	102
MGTG4B	143	151
CSSM066	185	185
ILSTS006	Not Detected	

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



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01 September 2022

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ZOCA2022-35590-DC

01-Sep-22

****Disclaimer**

Whatever is contained in this report is subject to the following:

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	BL210378
BREED	Charolais
SPECIES	Bovine
GENDER	Female
OWNER	ZELPY 2648 PTY LTD
LAB. NO	ZOCA2022-35589

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	89
BM2113	125	127
TGLA053	Not Detected	
ETH10	217	217
ILSTS011	266	268
SPS113	137	137
RM067	90	96
TGLA126	115	117
TGLA122	157	157
INRA023	212	212

STR Marker	Allele 1	Allele 2
BM1818	264	266
ETH003	117	125
ETH225	148	150
BM1824	182	188
SPS115	248	256
CSRM060	102	102
MGTG4B	143	147
CSSM066	183	189
ILSTS006	292	292

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



Dr Christiaan Labuschagne
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ZOCA2022-35589-DC

01-Sep-22

****Disclaimer**

Whatever is contained in this report is subject to the following:

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	BL170039
BREED	Charolais
SPECIES	Bovine
GENDER	Female
OWNER	ZELPY 2648 PTY LTD
LAB. NO	ZOCA2022-35581

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	83	89
BM2113	127	137
TGLA053	Not Detected	
ETH10	217	217
ILSTS011	266	268
SPS113	137	137
RM067	92	96
TGLA126	Not Detected	
TGLA122	151	157
INRA023	212	218

STR Marker	Allele 1	Allele 2
BM1818	264	264
ETH003	117	125
ETH225	140	148
BM1824	182	188
SPS115	248	248
CSRM060	102	102
MGTG48	135	147
CSSM066	183	189
ILSTS006	292	296

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



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ZOCA2022-35581-DC

01-Sep-22

****Disclaimer**

Whatever is contained in this report is subject to the following:

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	BL180009
BREED	Charolais
SPECIES	Bovine
GENDER	Female
OWNER	ZELPY 2648 PTY LTD
LAB. NO	ZOCA2022-35582

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	89
BM2113	125	135
TGLA053	Not Detected	
ETH10	217	217
ILSTS011	266	268
SPS113	Not Detected	
RM067	90	90
TGLA126	Not Detected	
TGLA122	149	151
INRA023	206	208

STR Marker	Allele 1	Allele 2
BM1818	266	266
ETH003	117	125
ETH225	148	150
BM1824	178	182
SPS115	248	256
CSRM060	98	102
MGTG48	135	135
CSSM066	185	193
ILSTS006	Not Detected	

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



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ZOCA2022-35582-DC

01-Sep-22

****Disclaimer**

Whatever is contained in this report is subject to the following:

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	BL200325
BREED	Charolais
SPECIES	Bovine
GENDER	Female
OWNER	ZELPY 2648 PTY LTD
LAB. NO	ZOCA2022-35583

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	89	97
BM2113	131	137
TGLA053	Not Detected	
ETH10	217	217
ILSTS011	264	268
SPS113	Not Detected	
RM067	90	96
TGLA126	Not Detected	
TGLA122	143	151
INRA023	208	218

STR Marker	Allele 1	Allele 2
BM1818	262	266
ETH003	117	125
ETH225	148	150
BM1824	180	182
SPS115	248	256
CSRM060	98	102
MGTG4B	135	147
CSSM066	183	193
ILSTS006	Not Detected	

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



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CVML15/AG/00226

06-Mar-15

ZOCA2022-35583-DC

01-Sep-22

****Disclaimer**

Whatever is contained in this report is subject to the following:

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	BL210335
BREED	Charolais
SPECIES	Bovine
GENDER	Male
OWNER	ZELPY 2648 PTY LTD
LAB. NO	ZOCA2022-35586

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	89
BM2113	127	127
TGLA053	Not Detected	
ETH10	217	217
ILSTS011	268	268
SPS113	Not Detected	
RM067	90	90
TGLA126	Not Detected	
TGLA122	143	151
INRA023	218	218

STR Marker	Allele 1	Allele 2
BM1818	260	264
ETH003	117	125
ETH225	148	148
BM1824	178	180
SPS115	256	256
CSRM060	98	102
MGTG4B	135	135
CSSM066	185	185
ILSTS006	292	292

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



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06-Mar-15

ZOCA2022-35586-DC

01-Sep-22

****Disclaimer**

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	BL210348
BREED	Charolais
SPECIES	Bovine
GENDER	Male
OWNER	ZELPY 2648 PTY LTD
LAB. NO	ZOCA2022-35587

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	83
BM2113	127	135
TGLA053	Not Detected	
ETH10	217	217
ILSTS011	268	268
SPS113	Not Detected	
RM067	90	92
TGLA126	117	117
TGLA122	147	151
INRA023	206	206

STR Marker	Allele 1	Allele 2
BM1818	264	266
ETH003	117	125
ETH225	148	148
BM1824	178	188
SPS115	248	248
CSRM060	92	102
MGTG4B	Not Detected	
CSSM066	183	189
ILSTS006	Not Detected	

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



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CVML15/AG/00226

06-Mar-15

ZOCA2022-35587-DC

01-Sep-22

****Disclaimer**

Whatever is contained in this report is subject to the following:

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	BL210377
BREED	Charolais
SPECIES	Bovine
GENDER	Female
OWNER	ZELPY 2648 PTY LTD
LAB. NO	ZOCA2022-35588

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	89
BM2113	125	125
TGLA053	Not Detected	
ETH10	217	219
ILSTS011	268	268
SPS113	Not Detected	
RM067	Not Detected	
TGLA126	Not Detected	
TGLA122	147	151
INRA023	208	218

STR Marker	Allele 1	Allele 2
BM1818	264	266
ETH003	117	125
ETH225	148	148
BM1824	182	188
SPS115	248	256
CSRM060	96	98
MGTG48	135	143
CSSM066	185	185
ILSTS006	Not Detected	

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



Dr Christiaan Labuschagne
 Genomics Manager

01 September 2022

Date

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Whatever is contained in this report is subject to the following:

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	BL120015
BREED	Charolais
SPECIES	Bovine
GENDER	Female
OWNER	ZELPY 2648 PTY LTD
LAB. NO	ZOCA2022-35573

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	89
BM2113	125	135
TGLA053	Not Detected	
ETH10	217	217
ILSTS011	266	268
SPS113	Not Detected	
RM067	90	106
TGLA126	Not Detected	
TGLA122	143	143
INRA023	206	206

STR Marker	Allele 1	Allele 2
BM1818	266	266
ETH003	117	119
ETH225	148	148
BM1824	178	178
SPS115	256	256
CSRM060	92	104
MGTG4B	135	151
CSSM066	183	183
ILSTS006	292	292

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



Dr Christiaan Labuschagne
Genomics Manager

01 September 2022

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	BL130005
BREED	Charolais
SPECIES	Bovine
GENDER	Female
OWNER	ZELPY 2648 PTY LTD
LAB. NO	ZOCA2022-35574

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	83
BM2113	135	137
TGLA053	Not Detected	
ETH10	217	217
ILSTS011	268	268
SPS113	Not Detected	
RM067	90	92
TGLA126	Not Detected	
TGLA122	143	151
INRA023	206	206

STR Marker	Allele 1	Allele 2
BM1818	258	266
ETH003	117	117
ETH225	148	150
BM1824	178	188
SPS115	248	248
CSRM060	92	96
MGTG4B	135	151
CSSM066	183	193
ILSTS006	284	284

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



Dr Christiaan Labuschagne
 Genomics Manager

01 September 2022

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****Disclaimer**

Whatever is contained in this report is subject to the following:

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	BL140032
BREED	Charolais
SPECIES	Bovine
GENDER	Female
OWNER	ZELPY 2648 PTY LTD
LAB. NO	ZOCA2022-35575

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	89
BM2113	131	137
TGLA053	Not Detected	
ETH10	217	217
ILSTS011	268	268
SPS113	Not Detected	
RM067	90	92
TGLA126	113	117
TGLA122	147	151
INRA023	202	206

STR Marker	Allele 1	Allele 2
BM1818	264	266
ETH003	Not Detected	
ETH225	140	148
BM1824	178	188
SPS115	248	248
CSRM060	102	104
MGTG4B	135	135
CSSM066	185	189
ILSTS006	Not Detected	

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.


Dr Christiaan Labuschagne
 Genomics Manager

01 September 2022
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****Disclaimer**
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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	BL150013
BREED	Charolais
SPECIES	Bovine
GENDER	Female
OWNER	ZELPY 2648 PTY LTD
LAB. NO	ZOCA2022-35576

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	89	97
BM2113	125	127
TGLA053	Not Detected	
ETH10	217	217
ILSTS011	268	268
SPS113	Not Detected	
RM067	90	96
TGLA126	115	115
TGLA122	151	153
INRA023	206	208

STR Marker	Allele 1	Allele 2
BM1818	266	270
ETH003	119	119
ETH225	148	148
BM1824	178	188
SPS115	256	256
CSRM060	98	104
MGTG4B	135	135
CSSM066	185	191
ILSTS006	Not Detected	

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



Dr Christiaan Labuschagne
Genomics Manager

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	BL150013
BREED	Charolais
SPECIES	Bovine
GENDER	Female
OWNER	ZELPY 2648 PTY LTD
LAB. NO	ZOCA2022-35576

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	89	97
BM2113	125	127
TGLA053	Not Detected	
ETH10	217	217
ILSTS011	268	268
SPS113	Not Detected	
RM067	90	96
TGLA126	115	115
TGLA122	151	153
INRA023	206	208

STR Marker	Allele 1	Allele 2
BM1818	266	270
ETH003	119	119
ETH225	148	148
BM1824	178	188
SPS115	256	256
CSRM060	98	104
MGTG4B	135	135
CSSM066	185	191
ILSTS006	Not Detected	

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



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Whatever is contained in this report is subject to the following:

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	BL150034
BREED	Charolais
SPECIES	Bovine
GENDER	Female
OWNER	ZELPY 2648 PTY LTD
LAB. NO	ZOCA2022-35577

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	77
BM2113	135	137
TGLA053	Not Detected	
ETH10	217	217
ILSTS011	268	268
SPS113	Not Detected	
RM067	94	96
TGLA126	Not Detected	
TGLA122	151	153
INRA023	206	218

STR Marker	Allele 1	Allele 2
BM1818	258	262
ETH003	117	117
ETH225	148	150
BM1824	178	182
SPS115	248	248
CSRM060	96	98
MGTG4B	135	147
CSSM066	183	193
ILSTS006	Not Detected	

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



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Genomics Manager

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****Disclaimer**

Whatever is contained in this report is subject to the following:

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	BL150054
BREED	Charolais
SPECIES	Bovine
GENDER	Female
OWNER	ZELPY 2648 PTY LTD
LAB. NO	ZOCA2022-35578

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	89
BM2113	137	139
TGLA053	Not Detected	
ETH10	217	217
ILSTS011	268	268
SPS113	Not Detected	
RM067	90	90
TGLA126	115	115
TGLA122	143	179
INRA023	206	206

STR Marker	Allele 1	Allele 2
BM1818	262	266
ETH003	117	125
ETH225	148	150
BM1824	178	178
SPS115	248	256
CSRM060	96	100
MGTG4B	135	143
CSSM066	183	185
ILSTS006	290	296

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



Dr Christiaan Labuschagne
Genomics Manager

01 September 2022

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Whatever is contained in this report is subject to the following:

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	BL160021
BREED	Charolais
SPECIES	Bovine
GENDER	Female
OWNER	ZELPY 2648 PTY LTD
LAB. NO	ZOCA2022-35579

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	89	91
BM2113	125	127
TGLA053	Not Detected	
ETH10	217	217
ILSTS011	266	268
SPS113	Not Detected	
RM067	90	96
TGLA126	Not Detected	
TGLA122	143	143
INRA023	206	218

STR Marker	Allele 1	Allele 2
BM1818	264	266
ETH003	117	125
ETH225	148	148
BM1824	178	178
SPS115	256	256
CSRM060	98	102
MGTG4B	135	135
CSSM066	185	193
ILSTS006	Not Detected	

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



Dr Christiaan Labuschagne
 Genomics Manager

01 September 2022

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****Disclaimer**

Whatever is contained in this report is subject to the following:

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	BL160027
BREED	Charolais
SPECIES	Bovine
GENDER	Female
OWNER	ZELPY 2648 PTY LTD
LAB. NO	ZOCA2022-35580

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	81	81
BM2113	135	135
TGLA053	Not Detected	
ETH10	217	217
ILSTS011	268	268
SPS113	Not Detected	
RM067	90	90
TGLA126	Not Detected	
TGLA122	143	155
INRA023	200	206

STR Marker	Allele 1	Allele 2
BM1818	258	266
ETH003	117	117
ETH225	140	150
BM1824	178	178
SPS115	248	248
CSRM060	92	96
MGTG4B	135	135
CSSM066	185	185
ILSTS006	Not Detected	

The DNA profile represents the standardised alleles for the 12 International Society for Animal Genetics (ISAG, 2016) recommended markers. These alleles were obtained from STR analysis by capillary electrophoresis. The DNA profile includes additional markers as recommended by the Food and Agriculture Organization of the United Nations (FAO) for routine bovine parentage testing and identification.



Dr Christiaan Labuschagne
Genomics Manager

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