

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	VPBM180333
MICROCHIP NUMBER	-
SPECIES	Cattle
GENDER	Male
OWNER	SE van Pletzen
LAB. NO	ZOCA2021-19551

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	77
BM2113	127	133
TGLA053	176	176
ETH10	209	217
ILSTS011	268	268
SPS113	Not Detected	
RM067	92	102
TGLA126	123	125
TGLA122	137	143
INRA023	206	214

STR Marker	Allele 1	Allele 2
BM1818	264	266
ETH003	Not Detected	
ETH225	148	148
BM1824	Not Detected	
SPS115	248	248
CSRM060	100	102
MG TG4B	135	145
CSSM066	185	197
ILSTS006	288	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

24 August 2021

Date

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ZOCA2021-19551-DC

ISAG
 Institutional Member

06-Mar-15

24-Aug-21

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	VPBM180352
MICROCHIP NUMBER	-
SPECIES	Cattle ✓
GENDER	Male
OWNER	SE van Pletzen
LAB. NO	ZOCA2021-19552

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	93	97
BM2113	127	141
TGLA053	182	182
ETH10	209	221
ILSTS011	266	268
SPS113	Not Detected	
RM067	90	90
TGLA126	125	125
TGLA122	137	143
INRA023	208	208

STR Marker	Allele 1	Allele 2
BM1818	266	266
ETH003	117	117
ETH225	148	150
BM1824	175	180
SPS115	252	252
CSRM060	92	104
MGTG4B	139	145
CSSM066	181	183
ILSTS006	288	292

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	VPBM180353
MICROCHIP NUMBER	-
SPECIES	Cattle
GENDER	Male
OWNER	SE van Pletzen
LAB. NO	ZOCA2021-19553

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	89	97
BM2113	Not Detected	
TGLA053	180	182
ETH10	209	217
ILSTS011	266	268
SPS113	Not Detected	
RM067	90	102
TGLA126	115	123
TGLA122	151	151
INRA023	208	208

STR Marker	Allele 1	Allele 2
BM1818	258	266
ETH003	117	121
ETH225	140	150
BM1824	Not Detected	
SPS115	248	248
CSRM060	100	104
MGTG4B	129	149
CSSM066	181	185
ILSTS006	288	294

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	VPBM180361
MICROCHIP NUMBER	-
SPECIES	Cattle
GENDER	Male
OWNER	SE van Pletzen
LAB. NO	ZOCA2021-19554

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	97
BM2113	125	141
TGLA053	166	176
ETH10	221	221
ILSTS011	268	268
SPS113	Not Detected	
RM067	90	90
TGLA126	115	123
TGLA122	137	137
INRA023	208	208

STR Marker	Allele 1	Allele 2
BM1818	262	268
ETH003	117	121
ETH225	Not Detected	
BM1824	Not Detected	
SPS115	248	252
CSRM060	100	102
MGTG4B	129	135
CSSM066	181	195
ILSTS006	292	294

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	VPBM180324
MICROCHIP NUMBER	-
SPECIES	Cattle
GENDER	Male
OWNER	SE van Pletzen
LAB. NO	ZOCA2021-19555

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	93
BM2113	133	141
TGLA053	166	176
ETH10	217	221
ILSTS011	268	268
SPS113	Not Detected	
RM067	94	102
TGLA126	115	125
TGLA122	137	137
INRA023	196	214

STR Marker	Allele 1	Allele 2
BM1818	258	266
ETH003	117	117
ETH225	159	161
BM1824	Not Detected	
SPS115	248	248
CSRM060	102	102
MGTG4B	135	145
CSSM066	189	197
ILSTS006	288	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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24-Aug-21

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	VPBM180345
MICROCHIP NUMBER	-
SPECIES	Cattle
GENDER	Male
OWNER	SE van Pletzen
LAB. NO	ZOCA2021-19556

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	Not Detected	
BM2113	133	141
TGLA053	154	174
ETH10	217	221
ILSTS011	261	264
SPS113	Not Detected	
RM067	90	92
TGLA126	117	121
TGLA122	143	151
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	262	264
ETH003	Not Detected	
ETH225	159	159
BM1824	Not Detected	
SPS115	248	252
CSRM060	102	114
MGTG4B	139	149
CSSM066	181	181
ILSTS006	292	294

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	VPBM180351
MICROCHIP NUMBER	-
SPECIES	Cattle
GENDER	Male
OWNER	SE van Pletzen
LAB. NO	ZOCA2021-19557

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	89	89
BM2113	121	129
TGLA053	154	154
ETH10	211	219
ILSTS011	261	268
SPS113	Not Detected	
RM067	90	92
TGLA126	115	117
TGLA122	149	161
INRA023	198	214

STR Marker	Allele 1	Allele 2
BM1818	262	262
ETH003	Not Detected	
ETH225	157	159
BM1824	180	180
SPS115	248	248
CSRM060	100	102
MGTG4B	135	139
CSSM066	181	197
ILSTS006	292	294

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	VPBM180357
MICROCHIP NUMBER	-
SPECIES	Cattle
GENDER	Male
OWNER	SE van Pletzen
LAB. NO	ZOCA2021-19558

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	Not Detected	
BM2113	121	121
TGLA053	154	182
ETH10	221	221
ILSTS011	266	268
SPS113	Not Detected	
RM067	90	94
TGLA126	115	117
TGLA122	Not Detected	
INRA023	208	212

STR Marker	Allele 1	Allele 2
BM1818	262	264
ETH003	131	131
ETH225	140	150
BM1824	Not Detected	
SPS115	248	252
CSRM060	102	104
MGTG4B	129	129
CSSM066	181	185
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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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	VPBM180350
MICROCHIP NUMBER	-
SPECIES	Cattle
GENDER	Male
OWNER	SE van Pletzen
LAB. NO	ZOCA2021-19559

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	81
BM2113	137	141
TGLA053	162	176
ETH10	209	221
ILSTS011	266	266
SPS113	Not Detected	
RM067	92	102
TGLA126	119	125
TGLA122	137	151
INRA023	206	214

STR Marker	Allele 1	Allele 2
BM1818	266	268
ETH003	115	117
ETH225	144	159
BM1824	180	182
SPS115	248	254
CSRM060	102	102
MGTG4B	135	149
CSSM066	195	197
ILSTS006	284	294

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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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	VPBM170316
MICROCHIP NUMBER	-
SPECIES	Cattle
GENDER	Male
OWNER	SE van Pletzen
LAB. NO	ZOCA2021-19560

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	77
BM2113	129	139
TGLA053	154	154
ETH10	211	217
ILSTS011	268	268
SPS113	Not Detected	
RM067	90	98
TGLA126	115	117
TGLA122	151	161
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	262	266
ETH003	117	121
ETH225	159	159
BM1824	Not Detected	
SPS115	248	252
CSRM060	100	102
MGTG4B	135	135
CSSM066	181	187
ILSTS006	292	294

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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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	VPBM180332
MICROCHIP NUMBER	-
SPECIES	Cattle
GENDER	Male
OWNER	SE van Pletzen
LAB. NO	ZOCA2021-19561

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	89
BM2113	141	141
TGLA053	162	176
ETH10	217	217
ILSTS011	268	268
SPS113	Not Detected	
RM067	102	106
TGLA126	115	125
TGLA122	137	151
INRA023	206	214

STR Marker	Allele 1	Allele 2
BM1818	266	270
ETH003	117	117
ETH225	Not Detected	
BM1824	Not Detected	
SPS115	248	248
CSRM060	92	102
MGTG4B	137	137
CSSM066	187	197
ILSTS006	284	306

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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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	VPBM180329
MICROCHIP NUMBER	-
SPECIES	Cattle
GENDER	Male
OWNER	SE van Pletzen
LAB. NO	ZOCA2021-19562

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	97
BM2113	127	129
TGLA053	168	174
ETH10	209	221
ILSTS011	266	268
SPS113	Not Detected	
RM067	90	102
TGLA126	123	125
TGLA122	143	151
INRA023	208	214

STR Marker	Allele 1	Allele 2
BM1818	266	268
ETH003	117	119
ETH225	Not Detected	
BM1824	Not Detected	
SPS115	248	256
CSRM060	92	114
MGTG4B	135	145
CSSM066	187	197
ILSTS006	284	288

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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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	VPBM180347
MICROCHIP NUMBER	-
SPECIES	Cattle
GENDER	Male
OWNER	SE van Pletzen
LAB. NO	ZOCA2021-19563

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	93
BM2113	133	141
TGLA053	154	190
ETH10	213	217
ILSTS011	261	266
SPS113	Not Detected	
RM067	90	98
TGLA126	123	125
TGLA122	143	143
INRA023	214	214

STR Marker	Allele 1	Allele 2
BM1818	266	272
ETH003	115	117
ETH225	140	159
BM1824	Not Detected	
SPS115	248	254
CSRM060	92	102
MGTG4B	135	141
CSSM066	181	197
ILSTS006	292	296

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	VPBM180306
MICROCHIP NUMBER	-
SPECIES	Cattle
GENDER	-
OWNER	SE van Pletzen
LAB. NO	ZOCA2021-19565

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	77
BM2113	129	141
TGLA053	154	160
ETH10	211	211
ILSTS011	264	268
SPS113	Not Detected	
RM067	92	92
TGLA126	115	117
TGLA122	151	151
INRA023	198	214

STR Marker	Allele 1	Allele 2
BM1818	266	272
ETH003	Not Detected	
ETH225	159	159
BM1824	180	180
SPS115	248	252
CSRM060	100	102
MGTG4B	135	145
CSSM066	187	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.



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