

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	HK250001
BREED	Bonsmara
SPECIES	Cattle
GENDER	Male
OWNER	Rindro Bonsmaras
LAB. NO	ZOCA2025-95457

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	79	91
BM2113	133	135
TGLA053	172	176
ETH10	217	221
ILSTS011	264	268
SPS113	141	153
RM067	90	94
TGLA126	115	115
TGLA122	143	145
INRA023	208	214

STR Marker	Allele 1	Allele 2
BM1818	260	262
ETH003	121	121
ETH225	140	152
BM1824	182	192
SPS115	248	248
CSRM060	96	104
MGTG4B	135	135
CSSM066	185	185
ILSTS006	294	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.



Dr Christiaan Labuschagne
Genomics Manager

12 September 2025
Date

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ISAG 
Institutional Member

CVML15/AG/00226

06-Mar-15

DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	HK250002
BREED	Bonsmara
SPECIES	Cattle
GENDER	Male
OWNER	Rindro Bonsmaras
LAB. NO	ZOCA2025-95458

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	89
BM2113	121	139
TGLA053	160	170
ETH10	213	221
ILSTS011	268	268
SPS113	139	139
RM067	90	92
TGLA126	115	115
TGLA122	137	151
INRA023	196	214

STR Marker	Allele 1	Allele 2
BM1818	262	266
ETH003	117	117
ETH225	140	140
BM1824	182	192
SPS115	248	248
CSRM060	92	102
MGTG4B	135	137
CSSM066	185	189
ILSTS006	292	292

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	HK250013
BREED	Bonsmara
SPECIES	Cattle
GENDER	Female
OWNER	Rindro Bonsmaras
LAB. NO	ZOCA2025-95459

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	89
BM2113	137	137
TGLA053	154	160
ETH10	221	221
ILSTS011	266	268
SPS113	137	147
RM067	92	94
TGLA126	115	125
TGLA122	143	151
INRA023	202	214

STR Marker	Allele 1	Allele 2
BM1818	266	270
ETH003	121	125
ETH225	144	151
BM1824	180	182
SPS115	248	261
CSRM060	92	92
MGTG4B	135	137
CSSM066	185	187
ILSTS006	292	292

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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	HK250046
BREED	Bonsmara
SPECIES	Cattle
GENDER	Male
OWNER	Rindro Bonsmaras
LAB. NO	ZOCA2025-95460

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	79	91
BM2113	121	139
TGLA053	160	160
ETH10	211	213
ILSTS011	266	268
SPS113	147	153
RM067	92	94
TGLA126	Not Detected	
TGLA122	143	151
INRA023	208	214

STR Marker	Allele 1	Allele 2
BM1818	266	268
ETH003	117	121
ETH225	140	150
BM1824	178	182
SPS115	248	248
CSRM060	92	102
MGTG4B	135	137
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.



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DNA PROFILE CERTIFICATE

General Information:

Test Animal	
ANIMAL ID/NAME	HK250062
BREED	Bonsmara
SPECIES	Cattle
GENDER	Female
OWNER	Rindro Bonsmaras
LAB. NO	ZOCA2025-95461

DNA Profiling Results:

STR Marker	Allele 1	Allele 2
TGLA227	77	77
BM2113	133	137
TGLA053	160	172
ETH10	211	221
ILSTS011	268	268
SPS113	139	139
RM067	90	94
TGLA126	115	125
TGLA122	137	149
INRA023	208	214

STR Marker	Allele 1	Allele 2
BM1818	262	270
ETH003	117	125
ETH225	144	158
BM1824	182	182
SPS115	248	261
CSRM060	100	102
MGTG4B	135	137
CSSM066	185	189
ILSTS006	292	292

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