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CERTIFICATO DI IDENTIFICAZIONE GENETICA/ GENETIC IDENTIFICATION CERTIFICATE

NOME SOGGETTO NAME		SPECIE SPECIE	BOVINE	RAZZA BREAD	CHIANINA
MICROCHIP/MATRICOLA HERDBOOK N°/ID	IT048990070223	TATUAGGIO TATTOO		DATA NASCITA DATE OF BIRTH	
ROI/LOI/LIR		SESSO GENDER	M	GEMELLO MULTIPLE BIRTH	
PADRE SIRE	IT052990041640				
MADRE DAM	IT048990029535				
DIAGNOSI DIAGNOSIS	SIRE & DAM QUALIFY				

CLIENTE/CUSTOMER	**ANABIC, SS 317 – km 52,450, 06078 San Martino in colle (PG)**				
RAPPORTO DI PROVA n. TEST REPORT n	18PR002006	DATA EMISSIONE DATE OF ISSUE	27/08/2018		
DATA RICEVIMENTO CAMPIONI DELIVERY DATE	24/11/2017	DATA INIZIO PROVA TEST START DATE	12/12/2017	DATA FINE PROVA TEST END DATE	08/01/2018
CODICE INTERNO LGS LGS SAMPLE ID	17BO57687	MATRICE DNA FROM	BLOOD		

Metodo di prova: *test method:*	Analisi molecolare tramite Illumina® beadchip/Molecular analysis with Illumina® beadchip
Incertezza di misura: *Uncertainty of measurement:*	
Informazioni: *Information:*	*La diagnosi del presente rapporto di prova è stata formulata tramite analisi del genotipo SNP attenendosi alle linee guida dell'International Society for Animal Genetics (ISAG) approvate alla conferenza di Cairns (Luglio 2012) e dell'Iternational Committee for Animal Recording (ICAR).* *The diagnosis of the present test report has been made through SNP profile analysis following the guidelines of the International Society for Animal Genetics (ISAG) approved at Cairns conference (July, 2012) and by the International Committee for Animal Recording (ICAR).*

Il prelievo ed il campionamento sono a carico del cliente / the customer is responsable for sampling

Il presente rapporto riguarda soltanto i campioni sottoposti a prova e non può essere riprodotto in forma parziale, salvo approvazione scritta di LGS
This report is relative to the analysed sample. Reproduction of partial copy of the document is not allowed without written authorization from LGS

IL RESPONSABILE DI LABORATORIO
THE LAB MANAGER

Dr. Raffaele Mazza

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GENOTIPO/GENOTYPE

Indice/Index	Nome Marker/Marker Name	AB Allele	TOP Allele
1	ARS-USMARC-Parent-AY761135-rs29003723	AB	AT
2	ARS-USMARC-Parent-AY776154-no-rs	AB	AG
3	ARS-USMARC-Parent-AY842472-rs29001941	BB	GG
4	ARS-USMARC-Parent-AY842473-rs29001956	BB	GG
5	ARS-USMARC-Parent-AY842474-rs29003226	AA	CC
6	ARS-USMARC-Parent-AY842475-rs29002127	AA	AA
7	ARS-USMARC-Parent-AY844963-rs17871338	BB	GG
8	ARS-USMARC-Parent-AY849381-rs29003287	BB	GG
9	ARS-USMARC-Parent-AY850194-no-rs	BB	GG
10	ARS-USMARC-Parent-AY851162-no-rs	AB	AG
11	ARS-USMARC-Parent-AY851163-rs17871661	AA	AA
12	ARS-USMARC-Parent-AY853302-no-rs	AA	AA
13	ARS-USMARC-Parent-AY853303-no-rs	AB	AG
14	ARS-USMARC-Parent-AY856094-rs17871190	AB	AG
15	ARS-USMARC-Parent-AY858890-rs29002256	AB	CG
16	ARS-USMARC-Parent-AY860426-no-rs	AB	AC
17	ARS-USMARC-Parent-AY863214-rs17871744	AB	AG
18	ARS-USMARC-Parent-AY914316-rs17871403	AB	AC
19	ARS-USMARC-Parent-AY916666-no-rs	BB	GG
20	ARS-USMARC-Parent-AY919868-rs29002211	AB	AG
21	ARS-USMARC-Parent-AY929334-no-rs	BB	GG
22	ARS-USMARC-Parent-AY937242-rs17872223	AA	AA
23	ARS-USMARC-Parent-AY939849-rs17870274	AB	AG
24	ARS-USMARC-Parent-AY941204-rs17872131	BB	GG
25	ARS-USMARC-Parent-AY943841-rs17871566	AB	AG
26	ARS-USMARC-Parent-DQ381152-rs29002408	AB	AT
27	ARS-USMARC-Parent-DQ381153-rs29012842	AB	AC
28	ARS-USMARC-Parent-DQ404149-no-rs	BB	GG
29	ARS-USMARC-Parent-DQ404150-rs29012530	AB	AC
30	ARS-USMARC-Parent-DQ404151-rs29019282	AA	AA
31	ARS-USMARC-Parent-DQ404152-rs29022245	AA	AA
32	ARS-USMARC-Parent-DQ404153-no-rs	AA	AA
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35	ARS-USMARC-Parent-DQ468384-rs29003967	BB	CC
36	ARS-USMARC-Parent-DQ470475-no-rs	BB	TT
37	ARS-USMARC-Parent-DQ489377-rs29026932	AA	AA
38	ARS-USMARC-Parent-DQ500958-no-rs	AB	AG
39	ARS-USMARC-Parent-DQ647186-rs29014143	AB	AG
40	ARS-USMARC-Parent-DQ647187-rs29010510	AB	AG
41	ARS-USMARC-Parent-DQ647189-rs29012226	AA	AA
42	ARS-USMARC-Parent-DQ647190-rs29013632	AB	AG
43	ARS-USMARC-Parent-DQ650635-rs29012174	BB	GG
44	ARS-USMARC-Parent-DQ650636-rs29024525	BB	GG
45	ARS-USMARC-Parent-DQ674265-rs29011266	AA	AA
46	ARS-USMARC-Parent-DQ786757-rs29019900	BB	GG
47	ARS-USMARC-Parent-DQ786758-rs29024430	BB	CC
48	ARS-USMARC-Parent-DQ786759-rs29026696	AB	AG
49	ARS-USMARC-Parent-DQ786761-rs29012840	AB	AG

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50	ARS-USMARC-Parent-DQ786762-rs29010772	AA	AA
51	ARS-USMARC-Parent-DQ786763-rs29020472	AB	AT
52	ARS-USMARC-Parent-DQ786764-no-rs	AA	AA
53	ARS-USMARC-Parent-DQ786766-rs29012070	AB	AG
54	ARS-USMARC-Parent-DQ789028-rs29017713	AB	AG
55	ARS-USMARC-Parent-DQ837643-rs29018818	BB	GG
56	ARS-USMARC-Parent-DQ837644-rs29010468	BB	CC
57	ARS-USMARC-Parent-DQ837645-rs29015870	AB	AG
58	ARS-USMARC-Parent-DQ839235-rs29012691	BB	CC
59	ARS-USMARC-Parent-DQ846688-rs29023691	AA	AA
60	ARS-USMARC-Parent-DQ846690-no-rs	AA	AA
61	ARS-USMARC-Parent-DQ846691-rs29019814	AA	AA
62	ARS-USMARC-Parent-DQ846692-rs29010281	AB	AG
63	ARS-USMARC-Parent-DQ846693-rs29017621	AA	AA
64	ARS-USMARC-Parent-DQ866817-no-rs	AA	AA
65	ARS-USMARC-Parent-DQ866818-rs29011701	AB	AC
66	ARS-USMARC-Parent-DQ888309-rs29013741	AA	AA
67	ARS-USMARC-Parent-DQ888310-rs29012422	AB	AC
68	ARS-USMARC-Parent-DQ888311-rs29017313	BB	CC
69	ARS-USMARC-Parent-DQ888313-no-rs	AB	AG
70	ARS-USMARC-Parent-DQ916057-rs29009979	BB	TT
71	ARS-USMARC-Parent-DQ916058-rs29016146	AB	AG
72	ARS-USMARC-Parent-DQ916059-rs29009907	AB	AG
73	ARS-USMARC-Parent-DQ984825-rs29012457	BB	GG
74	ARS-USMARC-Parent-DQ984826-rs29027559	AB	AT
75	ARS-USMARC-Parent-DQ984827-rs29012019	AA	AA
76	ARS-USMARC-Parent-DQ990832-rs29015065	BB	GG
77	ARS-USMARC-Parent-DQ990833-rs29010147	AB	AG
78	ARS-USMARC-Parent-DQ990834-rs29013727	AB	AG
79	ARS-USMARC-Parent-DQ995976-no-rs	AB	AG
80	ARS-USMARC-Parent-DQ995977-rs29020834	AB	AG
81	ARS-USMARC-Parent-EF026084-rs29025380	AB	AG
82	ARS-USMARC-Parent-EF026086-rs29013660	AB	AG
83	ARS-USMARC-Parent-EF026087-rs29011643	BB	GG
84	ARS-USMARC-Parent-EF028073-rs29014953	AB	AG
85	ARS-USMARC-Parent-EF034080-rs29024749	AB	AG
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87	ARS-USMARC-Parent-EF034082-rs29013532	BB	GG
88	ARS-USMARC-Parent-EF034083-rs29018286	BB	CC
89	ARS-USMARC-Parent-EF034084-rs29016185	AB	CG
90	ARS-USMARC-Parent-EF034085-rs29025677	BB	GG
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92	ARS-USMARC-Parent-EF034087-no-rs	BB	GG
93	ARS-USMARC-Parent-EF042090-no-rs	AB	AG
94	ARS-USMARC-Parent-EF042091-rs29014974	BB	GG
95	ARS-USMARC-Parent-EF093509-rs29015170	AA	AA
96	ARS-USMARC-Parent-EF093511-rs29012316	AA	AA
97	ARS-USMARC-Parent-EF093512-rs29013546	AB	CG
98	ARS-USMARC-Parent-EF141102-rs29015783	AB	AG
99	ARS-USMARC-Parent-EF150946-rs29023666	AA	AA
100	ARS-USMARC-Parent-EF164803-rs29011141	AB	AG
101	ARS-BFGL-BAC-19454	AA	AA

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102	ARS-BFGL-BAC-27364	AB	AC
103	ARS-BFGL-BAC-35552	BB	GG
104	ARS-BFGL-NGS-10035	BB	GG
105	ARS-BFGL-NGS-101456	BB	GG
106	ARS-BFGL-NGS-102169	BB	CC
107	ARS-BFGL-NGS-106015	AA	AA
108	ARS-BFGL-NGS-111053	AB	AG
109	ARS-BFGL-NGS-111076	BB	GG
110	ARS-BFGL-NGS-111114	AB	AC
111	ARS-BFGL-NGS-112094	AA	AA
112	ARS-BFGL-NGS-112325	AB	AG
113	ARS-BFGL-NGS-11383	AB	AG
114	ARS-BFGL-NGS-114006	BB	GG
115	ARS-BFGL-NGS-115514	AA	AA
116	ARS-BFGL-NGS-117319	AB	AG
117	ARS-BFGL-NGS-117322	BB	GG
118	ARS-BFGL-NGS-118319	BB	CC
119	ARS-BFGL-NGS-118340	AA	AA
120	ARS-BFGL-NGS-119662	BB	GG
121	ARS-BFGL-NGS-14740	BB	GG
122	ARS-BFGL-NGS-15506	AB	AG
123	ARS-BFGL-NGS-15731	AB	AG
124	ARS-BFGL-NGS-24419	AA	AA
125	ARS-BFGL-NGS-26517	AB	AG
126	ARS-BFGL-NGS-27577	BB	GG
127	ARS-BFGL-NGS-31640	AA	AA
128	ARS-BFGL-NGS-31807	AA	AA
129	ARS-BFGL-NGS-36513	AB	AG
130	ARS-BFGL-NGS-38423	BB	GG
131	ARS-BFGL-NGS-38620	AB	AG
132	ARS-BFGL-NGS-39978	AB	AG
133	ARS-BFGL-NGS-42283	AB	AG
134	ARS-BFGL-NGS-42505	AA	AA
135	ARS-BFGL-NGS-55943	AA	AA
136	ARS-BFGL-NGS-57711	AB	AG
137	ARS-BFGL-NGS-58613	AB	AG
138	ARS-BFGL-NGS-67146	AB	AG
139	ARS-BFGL-NGS-70946	AB	AC
140	ARS-BFGL-NGS-72471	BB	CC
141	ARS-BFGL-NGS-76191	AB	AG
142	ARS-BFGL-NGS-76330	AB	AG
143	ARS-BFGL-NGS-86662	AA	AA
144	ARS-BFGL-NGS-93119	AB	AG
145	ARS-BFGL-NGS-96125	BB	GG
146	ARS-BFGL-NGS-99210	BB	GG
147	ARS-USMARC-569	AA	AA
148	ARS-USMARC-Parent-AY841151-rs29003466	AB	AC
149	ARS-USMARC-Parent-DQ786765-rs29009858	AB	AC
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151	ARS-USMARC-Parent-EF089234-rs29020870	AB	AT
153	BTA-11701-rs29017459	AB	AG
154	BTA-30857-no-rs	BB	GG

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155	BTA-37062-no-rs	AA	AA
156	BTA-73768-no-rs	AB	AG
157	BTA-92021-no-rs	AB	AT
158	BTB-00188171	BB	GG
159	BTB-00394801	AB	AC
160	BTB-00420215	BB	CC
161	BTB-00818821	AB	AG
162	BTB-01057979	BB	GG
163	BTB-01285245	BB	GG
164	BTB-01371672	AB	AG
165	BTB-01416427	AB	AG
166	BTB-01478115	AA	AA
167	BTB-01902778	AA	AA
168	BTB-01980499	BB	GG
169	Hapmap24215-BTA-163266	BB	CC
170	Hapmap31098-BTA-136127	AB	AG
171	Hapmap34424-BES10_Contig566_926	AA	AA
172	Hapmap35535-SCAFFOLD86180_8791	AA	AA
173	Hapmap36588-SCAFFOLD90561_9460	BB	GG
174	Hapmap39425-BTA-70290	AB	AC
175	Hapmap39461-BTA-109898	AA	AA
176	Hapmap40148-BTA-92999	AB	AC
177	Hapmap40729-BTA-40319	BB	GG
178	Hapmap41591-BTA-59790	AA	AA
179	Hapmap42648-BTA-71195	BB	GG
180	Hapmap43057-BTA-80741	AB	AG
181	Hapmap43142-BTA-107561	BB	GG
182	Hapmap43792-BTA-122725	BB	GG
183	Hapmap43953-BTA-83292	AB	AG
184	Hapmap46550-BTA-103548	AA	AA
185	Hapmap46653-BTA-47447	AA	AA
186	Hapmap47281-BTA-40051	AA	AA
187	Hapmap49452-BTA-112834	AA	AA
188	Hapmap50598-BTA-122724	AA	AA
189	Hapmap51227-BTA-41809	BB	GG
190	Hapmap51527-BTA-97415	BB	GG
191	Hapmap51908-BTA-63031	BB	GG
192	Hapmap52240-rs29013844	AB	AC
193	Hapmap54020-rs29023153	AB	AG
194	Hapmap54313-rs29012632	AA	AA
195	Hapmap54547-rs29012198	AA	AA
196	Hapmap55441-rs29010990	BB	GG
197	Hapmap59876-rs29018046	AB	AG
198	Hapmap60017-rs29023471	AA	AA
199	UA-IFASA-5034	BB	GG
200	UA-IFASA-6532	BB	GG