



AGROTIS S.r.l.
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LABORATORIO GENETICA E SERVIZI
Via Bergamo 292, 26100 Cremona
Tel. 0372.560828 | info-lgs@agrotis.it | http://www.lgscr.it



Accredited genetic
laboratory
Exp. 12/2022

CERTIFICATO DI IDENTIFICAZIONE GENETICA/ GENETIC IDENTIFICATION CERTIFICATE

NOME SOGGETTO NAME	-----	SPECIE SPECIE	BOVINE	RAZZA BREED	CHIANINA
MICROCHIP/MATRICOLA HERDBOOK N°/ID	IT054990282620	TATUAGGIO TATTOO	-----	DATA NASCITA DATE OF BIRTH	-----
ROI/LOI/LIR	-----	SESSO GENDER	M	GEMELLO MULTIPLE BIRTH	-----
PADRE SIRE	IT051990074045				
MADRE DAM	IT054990219423				
DIAGNOSI DIAGNOSIS	SIRE and DAM qualify				
CLIENTE/CUSTOMER	ANABIC, SS 317 – km 52,450, 06078 San Martino in colle (PG)				
RAPPORTO DI PROVA n. TEST REPORT n	22CA01517	DATA EMISSIONE DATE OF ISSUE	14/07/2022		
DATA RICEVIMENTO CAMPIONI DELIVERY DATE	29/06/2022	DATA INIZIO PROVA TEST START DATE	30/06/2022	DATA FINE PROVA TEST END DATE	14/07/2022
CODICE INTERNO LGS LGS SAMPLE ID	22BO41225/01	MATRICE DNA FROM	EARTAG		

<i>Metodo di prova: test method:</i>	Analisi molecolare tramite Illumina® beadchip/Molecular analysis with Illumina® beadchip
<i>Incertezza di misura: Uncertainty of measurement:</i>	
<i>Informazioni: Information:</i>	<i>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'International 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).</i>
<i>Il prelievo ed il campionamento sono a carico del cliente / the customer is responsible for sampling</i>	
<i>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</i>	

LA RESPONSABILE DI LABORATORIO
THE LAB MANAGER

Dr. Cecilia Fontana



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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	AB	CG
4	ARS-USMARC-Parent-AY842473-rs29001956	AB	AG
5	ARS-USMARC-Parent-AY842474-rs29003226	AB	CG
6	ARS-USMARC-Parent-AY842475-rs29002127	AB	AG
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	BB	GG
11	ARS-USMARC-Parent-AY851163-rs17871661	BB	GG
12	ARS-USMARC-Parent-AY853302-no-rs	AA	AA
13	ARS-USMARC-Parent-AY853303-no-rs	AA	AA
14	ARS-USMARC-Parent-AY856094-rs17871190	AA	AA
15	ARS-USMARC-Parent-AY858890-rs29002256	AA	CC
16	ARS-USMARC-Parent-AY860426-no-rs	BB	CC
17	ARS-USMARC-Parent-AY863214-rs17871744	AB	AG
18	ARS-USMARC-Parent-AY914316-rs17871403	AA	AA
19	ARS-USMARC-Parent-AY916666-no-rs	AB	AG
20	ARS-USMARC-Parent-AY919868-rs29002211	BB	GG
21	ARS-USMARC-Parent-AY929334-no-rs	AB	AG
22	ARS-USMARC-Parent-AY937242-rs17872223	AB	AG
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	BB	CC
28	ARS-USMARC-Parent-DQ404149-no-rs	AB	AG
29	ARS-USMARC-Parent-DQ404150-rs29012530	AB	AC
30	ARS-USMARC-Parent-DQ404151-rs29019282	AA	AA
31	ARS-USMARC-Parent-DQ404152-rs29022245	AB	AG
32	ARS-USMARC-Parent-DQ404153-no-rs	AB	AG
33	ARS-USMARC-Parent-DQ435443-rs29010802	AB	AC
34	ARS-USMARC-Parent-DQ451555-rs29010795	AB	AG
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



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38	ARS-USMARC-Parent-DQ500958-no-rs	AB	AG
39	ARS-USMARC-Parent-DQ647186-rs29014143	BB	GG
40	ARS-USMARC-Parent-DQ647187-rs29010510	BB	GG
41	ARS-USMARC-Parent-DQ647189-rs29012226	AA	AA
42	ARS-USMARC-Parent-DQ647190-rs29013632	BB	GG
43	ARS-USMARC-Parent-DQ650635-rs29012174	AB	AG
44	ARS-USMARC-Parent-DQ650636-rs29024525	AB	AG
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	AA	AA
49	ARS-USMARC-Parent-DQ786761-rs29012840	AA	AA
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	AB	AC
59	ARS-USMARC-Parent-DQ846688-rs29023691	BB	GG
60	ARS-USMARC-Parent-DQ846690-no-rs	AA	AA
61	ARS-USMARC-Parent-DQ846691-rs29019814	AB	AG
62	ARS-USMARC-Parent-DQ846692-rs29010281	AB	AG
63	ARS-USMARC-Parent-DQ846693-rs29017621	AA	AA
64	ARS-USMARC-Parent-DQ866817-no-rs	AB	AG
65	ARS-USMARC-Parent-DQ866818-rs29011701	AB	AC
66	ARS-USMARC-Parent-DQ888309-rs29013741	BB	CC
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	AB	AT
71	ARS-USMARC-Parent-DQ916058-rs29016146	AA	AA
72	ARS-USMARC-Parent-DQ916059-rs29009907	AB	AG
73	ARS-USMARC-Parent-DQ984825-rs29012457	AA	AA
74	ARS-USMARC-Parent-DQ984826-rs29027559	AB	AT
75	ARS-USMARC-Parent-DQ984827-rs29012019	AB	AG
76	ARS-USMARC-Parent-DQ990832-rs29015065	BB	GG
77	ARS-USMARC-Parent-DQ990833-rs29010147	AA	AA
78	ARS-USMARC-Parent-DQ990834-rs29013727	AA	AA
79	ARS-USMARC-Parent-DQ995976-no-rs	AB	AG
80	ARS-USMARC-Parent-DQ995977-rs29020834	AB	AG
81	ARS-USMARC-Parent-EF026084-rs29025380	BB	GG
82	ARS-USMARC-Parent-EF026086-rs29013660	AB	AG
83	ARS-USMARC-Parent-EF026087-rs29011643	BB	GG
84	ARS-USMARC-Parent-EF028073-rs29014953	AA	AA



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85	ARS-USMARC-Parent-EF034080-rs29024749	BB	GG
86	ARS-USMARC-Parent-EF034081-rs29009668	BB	TT
87	ARS-USMARC-Parent-EF034082-rs29013532	BB	GG
88	ARS-USMARC-Parent-EF034083-rs29018286	AB	AC
89	ARS-USMARC-Parent-EF034084-rs29016185	AB	CG
90	ARS-USMARC-Parent-EF034085-rs29025677	AA	AA
91	ARS-USMARC-Parent-EF034086-no-rs	AB	AG
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	AB	AT
96	ARS-USMARC-Parent-EF093511-rs29012316	AB	AC
97	ARS-USMARC-Parent-EF093512-rs29013546	AB	CG
98	ARS-USMARC-Parent-EF141102-rs29015783	AB	AG
99	ARS-USMARC-Parent-EF150946-rs29023666	AB	AG
100	ARS-USMARC-Parent-EF164803-rs29011141	AB	AG
101	ARS-BFGL-BAC-19454	AA	AA
102	ARS-BFGL-BAC-27364	AB	AC
103	ARS-BFGL-BAC-35552	AA	AA
104	ARS-BFGL-NGS-10035	BB	GG
105	ARS-BFGL-NGS-101456	AA	AA
106	ARS-BFGL-NGS-102169	BB	CC
107	ARS-BFGL-NGS-106015	AA	AA
108	ARS-BFGL-NGS-111053	AA	AA
109	ARS-BFGL-NGS-111076	AB	AG
110	ARS-BFGL-NGS-111114	AA	AA
111	ARS-BFGL-NGS-112094	AB	AG
112	ARS-BFGL-NGS-112325	AB	AG
113	ARS-BFGL-NGS-11383	AA	AA
114	ARS-BFGL-NGS-114006	BB	GG
115	ARS-BFGL-NGS-115514	BB	GG
116	ARS-BFGL-NGS-117319	BB	GG
117	ARS-BFGL-NGS-117322	AA	AA
118	ARS-BFGL-NGS-118319	AB	AC
119	ARS-BFGL-NGS-118340	AB	AC
120	ARS-BFGL-NGS-119662	AA	AA
121	ARS-BFGL-NGS-14740	BB	GG
122	ARS-BFGL-NGS-15506	BB	GG
123	ARS-BFGL-NGS-15731	AB	AG
124	ARS-BFGL-NGS-24419	BB	GG
125	ARS-BFGL-NGS-26517	AB	AG
126	ARS-BFGL-NGS-27577	AA	AA
127	ARS-BFGL-NGS-31640	AA	AA
128	ARS-BFGL-NGS-31807	AB	AG
129	ARS-BFGL-NGS-36513	AA	AA
130	ARS-BFGL-NGS-38423	AA	AA
131	ARS-BFGL-NGS-38620	AB	AG



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132	ARS-BFGL-NGS-39978	AA	AA
133	ARS-BFGL-NGS-42283	AB	AG
134	ARS-BFGL-NGS-42505	AB	AG
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	AA	AA
139	ARS-BFGL-NGS-70946	AB	AC
140	ARS-BFGL-NGS-72471	AB	AC
141	ARS-BFGL-NGS-76191	AB	AG
142	ARS-BFGL-NGS-76330	AB	AG
143	ARS-BFGL-NGS-86662	AB	AC
144	ARS-BFGL-NGS-93119	AA	AA
145	ARS-BFGL-NGS-96125	BB	GG
146	ARS-BFGL-NGS-99210	AB	AG
147	ARS-USMARC-569	BB	GG
148	ARS-USMARC-Parent-AY841151-rs29003466	BB	CC
149	ARS-USMARC-Parent-DQ786765-rs29009858	AA	AA
150	ARS-USMARC-Parent-EF026085-rs29021607	AB	AC
151	ARS-USMARC-Parent-EF089234-rs29020870	AB	AT
153	BTA-11701-rs29017459	AB	AG
154	BTA-30857-no-rs	AB	AG
155	BTA-37062-no-rs	AB	AC
156	BTA-73768-no-rs	BB	GG
157	BTA-92021-no-rs	AA	AA
158	BTB-00188171	AB	AG
159	BTB-00394801	AB	AC
160	BTB-00420215	AB	AC
161	BTB-00818821	BB	GG
162	BTB-01057979	AB	AG
163	BTB-01285245	AB	AG
164	BTB-01371672	AB	AG
165	BTB-01416427	BB	GG
166	BTB-01478115	AB	AG
167	BTB-01902778	AB	AG
168	BTB-01980499	AB	AG
169	Hapmap24215-BTA-163266	AA	AA
170	Hapmap31098-BTA-136127	BB	GG
171	Hapmap34424-BES10_Contig566_926	AA	AA
172	Hapmap35535-SCAFFOLD86180_8791	AB	AG
173	Hapmap36588-SCAFFOLD90561_9460	BB	GG
174	Hapmap39425-BTA-70290	BB	CC
175	Hapmap39461-BTA-109898	AB	AC
176	Hapmap40148-BTA-92999	BB	CC
177	Hapmap40729-BTA-40319	BB	GG
178	Hapmap41591-BTA-59790	BB	GG
179	Hapmap42648-BTA-71195	AB	AG



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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	BB	TT
186	Hapmap47281-BTA-40051	AA	AA
187	Hapmap49452-BTA-112834	AB	AG
188	Hapmap50598-BTA-122724	AA	AA
189	Hapmap51227-BTA-41809	AB	AG
190	Hapmap51527-BTA-97415	AB	AG
191	Hapmap51908-BTA-63031	AA	AA
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	BB	GG
199	UA-IFASA-5034	BB	GG
200	UA-IFASA-6532	BB	GG