



NSW DEPARTMENT OF  
**PRIMARY INDUSTRIES**

Elizabeth Macarthur Agricultural Institute  
Woodbridge Rd Menangle

**Your Ref:** WAGYU  
**Our Ref:** M10-03927  
**Prev. Ref:**

**Laboratory Enquiries:** 1800 675 623  
**Invoice Enquiries:** 1300 720 773

## LABORATORY REPORT

**To:** LONE MOUNTAIN CATTLE  
1818 AB NM 14  
GOLDEN NEW MEXICO 87047  
NM USA  
Attn: ROBERT ESTRIN  
Fax: 505 281 0562

**Copies:**

**Owner:** LONE MOUNTAIN CATTLE  
**Property:** LONE MOUNTAIN RANCH

**Job Manager:** Carollyne Sewell  
**Job Type:** Cattle - Beef  
Wagyu

NEW MEXICO

**Date Sampled:** 17 Mar 2010  
**Date Sent:** 17 Mar 2010  
**Date Received:** 30 Mar 2010

**Samples Received:** 61 X HAIR & 22 X SEMEN STRAWS

### History

**Age:**    **Sex:** Not Specified    **No. at Risk:**    **No. Sick:**    **No. Dead:**

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### Comments

Please note that charges are to follow shortly. We would like to highlight the fact that **NO RESULT** cases *will not incur a charge*. Eighty three samples were received including 61 hair samples and 22 semen samples. Please note the samples experienced an extended delay period in quarantine upon arrival in Sydney.

All controls produced the expected results and all carrier results were repeated as a quality assurance measure.

All semen samples failed to produce a result in the CL-16 test. This is highly unusual and may be attributed to the delay in transit but we cannot be certain this was the reason. As stated earlier, you will not be charged for No Result samples.

Currently no carrier control for the Factor XIII test exists. No Factor XIII carriers were identified, however, in the absence of a carrier control these results should be viewed as indicative only.

Les Gabor  
Veterinary Pathologist - Registered Specialist

## EMAI Genetics

## Chediak Higachi Syndrome in Wagyu (CHS) PCR (Hair)

Sample No.	Sample ID	Chediak Higachi Syndrome in Wagyu	Sample No.	Sample ID	Chediak Higachi Syndrome in Wagyu
1	0102X	C	2	0100X	N
3	0106X	N	4	0125X	N
5	0126X	N	6	0122X	N
7	0123X	N	8	0136X	N
9	0131X	N	10	0110X	NR
11	0127X	N	12	0128X	N
13	0124X	N	14	9313W	N
15	9316W	N	16	9238	N
17	9281	N	18	9223	N
19	9220	N	20	9205	N
21	9222	N	22	9224	N
23	9270	N	24	814	C
25	817	N	26	801U VICS	N
27	8146U	N	28	799T	N
29	770T	N	30	8108U	N
31	797T	N	32	738T	N
33	8151U	N	34	804T	N
35	821T	N	36	756T	N
37	8112U	N	38	779	N
39	3655	N	40	6621	N
41	624S	N	42	4622	N
43	713T	N	44	714T	N
45	726T	N	46	3602	N
47	622S	N	48	644S	N
49	609S	N	50	747T	N
51	748T	N	52	801T	N
53	820T	N	54	4625	N
55	5609	N	56	764T	N
57	5612	N	58	728T	N
59	6620	N	60	5603	N
61	1605	N			

Legend: C=DNA analysis is consistent with the subject CARRYING Chediak Higachi Syndrome (CHS) in Wagyu cattle  
N=DNA analysis is consistent with the subject NOT carrying Chediak Higachi Syndrome (CHS) in Wagyu cattle  
NR=A result could not be obtained for this sample

**Chediak Higachi Syndrome in Wagyu (CHS) PCR (Semen)**

Sample No.	Sample ID	Chediak Higachi Syndrome in Wagyu	Sample No.	Sample ID	Chediak Higachi Syndrome in Wagyu
62	626S MICH/001 FB6637 259KB1009 00078 EBS/W	N	63	LMR KAGEMUSHA 2 638S FB6900 259KB1011 00528 EBS/W	N
64	607S MICH/400 FB6425 259KB1006 00088 EBS/W	N	65	LMR MICHIFUKU 784T FB8586 259KB1019 00409 EBS/W	N
66	LMR MICHIFUKU 810T FB8610 259KB1018 00479 EBS/W	N	67	54KB22 TAKAZAKURA 14767 11-27-95 CSS NEW ERA	N
68	LMR TOSHIRO 1/3 723T FB7475 259KB1016 01658 EBS/W CSS	N	69	LMR MICHIFUKU 630S FB6714 259KB1012 00648 EBS/W	N
70	LMR MICHIFUKU 807T FB8608 259KB1025 02309 EBS/W	N	71	U0 54KB61 LMR YO JIMBO ET FB6761 07263 CSS LONE MT	N
72	LMR TOSHIRO 3/3 720T FB7472 259KB1015 01628 EBS/W CSS	N	73	LMR YAK-3612 766T FB7794 259KB1024 02239 EBS/W CSS	N
74	237WG0003 BAR R YASAFUKU 42K FB5072 06/08/06 CSS	N	75	LMR ITOZURUDO I 8119U FB8329 259KB1032 02749 EBS/W	N
76	LMR KAGEMUSHA 639S FB6901 259KB1003 00648 EBS/W	N	77	BAR R 12P FB5665 154 KB034 02506 EBS/W CSS	N
78	625S 068/TAK FB6636 259KB1008 00108 EBS/W	N	79	LMR TAKAZAKURA 772T FB7800 259KB1020 00409 EBS/W	N
80	LMR SANJIRO 6035 FB6288 259KB1001 00668 EBS/W	N	81	54KB76 LMR JIRO FB7459 05-22-08 LONE MT 711T	N
82	310324A 259KB1014 01408 EBS/W CSS 719T	N	83	88KB2116 SANJIROU 1 51600 FB2501 WORLD K	N

Legend: N=DNA analysis is consistent with the subject NOT carrying Chediak Higachi Syndrome (CHS) in Wagyu cattle

**Factor 11 Deficiency in Wagyu (F11) (Hair)**

Sample No.	Sample ID	Factor 11 Deficiency in Wagyu	Sample No.	Sample ID	Factor 11 Deficiency in Wagyu
1	0102X	N	2	0100X	C
3	0106X	N	4	0125X	N
5	0126X	C	6	0122X	N
7	0123X	N	8	0136X	N
9	0131X	N	10	0110X	N
11	0127X	N	12	0128X	N
13	0124X	N	14	9313W	N
15	9316W	N	16	9238	N
17	9281	N	18	9223	C
19	9220	N	20	9205	N
21	9222	N	22	9224	N
23	9270	N	24	814	C

Sample No.	Sample ID	Factor 11 Deficiency in Wagyu	Sample No.	Sample ID	Factor 11 Deficiency in Wagyu
25	817	N	26	801U VICS	N
27	8146U	N	28	799T	N
29	770T	N	30	8108U	C
31	797T	A	32	738T	N
33	8151U	N	34	804T	N
35	821T	C	36	756T	N
37	8112U	N	38	779	C
39	3655	N	40	6621	N
41	624S	N	42	4622	N
43	713T	N	44	714T	N
45	726T	N	46	3602	C
47	622S	C	48	644S	N
49	609S	N	50	747T	N
51	748T	N	52	801T	A
53	820T	N	54	4625	N
55	5609	A	56	764T	C
57	5612	C	58	728T	N
59	6620	N	60	5603	C
61	1605	N			

Legend: N=DNA analysis is consistent with the subject NOT carrying Factor 11 Deficiency (F11) in Wagyu cattle  
C=DNA analysis is consistent with the subject CARRYING Factor 11 Deficiency (F11) in Wagyu cattle  
A=DNA analysis is consistent with the subject being HOMOZYGOUS (affected) for Factor 11 Deficiency (F11) in Wagyu cattle

#### Factor 11 Deficiency in Wagyu (F11) (Semen)

Sample No.	Sample ID	Factor 11 Deficiency in Wagyu	Sample No.	Sample ID	Factor 11 Deficiency in Wagyu
62	626S MICH/001 FB6637 259KB1009 00078 EBS/W	N	63	LMR KAGEMUSHA 2 638S FB6900 259KB1011 00528 EBS/W	N
64	607S MICH/400 FB6425 259KB1006 00088 EBS/W	N	65	LMR MICHIFUKU 784T FB8586 259KB1019 00409 EBS/W	N
66	LMR MICHIFUKU 810T FB8610 259KB1018 00479 EBS/W	N	67	54KB22 TAKAZAKURA 14767 11-27-95 CSS NEW ERA	N
68	LMR TOSHIRO 1/3 723T FB7475 259KB1016 01658 EBS/W CSS	N	69	LMR MICHIFUKU 630S FB6714 259KB1012 00648 EBS/W	N
70	LMR MICHIFUKU 807T FB8608 259KB1025 02309 EBS/W	N	71	U0 54KB61 LMR YO JIMBO ET FB6761 07263 CSS LONE MT	N
72	LMR TOSHIRO 3/3 720T FB7472 259KB1015 01628 EBS/W CSS	N	73	LMR YAK-3612 766T FB7794 259KB1024 02239 EBS/W CSS	N
74	237WG0003 BAR R YASAFUKU 42K FB5072 06/08/06 CSS	N	75	LMR ITOZURUDO I 8119U FB8329 259KB1032 02749 EBS/W	N
76	LMR KAGEMUSHA 639S FB6901 259KB1003 00648 EBS/W	C	77	BAR R 12P FB5665 154 KB034 02506 EBS/W CSS	N

Sample No.	Sample ID	Factor 11 Deficiency in Wagyu	Sample No.	Sample ID	Factor 11 Deficiency in Wagyu
78	625S 068/TAK FB6636 259KB1008 00108 EBS/W	C	79	LMR TAKAZAKURA 772T FB7800 259KB1020 00409 EBS/W	N
80	LMR SANJIRO 6035 FB6288 259KB1001 00668 EBS/W	N	81	54KB76 LMR JIRO FB7459 05-22-08 LONE MT 711T	N
82	310324A 259KB1014 01408 EBS/W CSS 719T	N	83	88KB2116 SANJIROU 1 51600 FB2501 WORLD K	N

Legend: N=DNA analysis is consistent with the subject NOT carrying Factor 11 Deficiency (F11) in Wagyu cattle  
C=DNA analysis is consistent with the subject CARRYING Factor 11 Deficiency (F11) in Wagyu cattle

### Factor 13 Deficiency in Wagyu (F13) (Hair)

Sample No.	Sample ID	Factor 13 Deficiency in Wagyu	Sample No.	Sample ID	Factor 13 Deficiency in Wagyu
1	0102X	N	2	0100X	N
3	0106X	N	4	0125X	N
5	0126X	N	6	0122X	N
7	0123X	N	8	0136X	N
9	0131X	N	10	0110X	N
11	0127X	N	12	0128X	N
13	0124X	N	14	9313W	N
15	9316W	N	16	9238	N
17	9281	N	18	9223	N
19	9220	N	20	9205	N
21	9222	N	22	9224	N
23	9270	N	24	814	N
25	817	N	26	801U VICS	N
27	8146U	N	28	799T	N
29	770T	N	30	8108U	N
31	797T	N	32	738T	N
33	8151U	N	34	804T	N
35	821T	N	36	756T	N
37	8112U	N	38	779	N
39	3655	N	40	6621	N
41	624S	N	42	4622	N
43	713T	N	44	714T	N
45	726T	N	46	3602	N
47	622S	N	48	644S	N
49	609S	N	50	747T	N
51	748T	N	52	801T	N
53	820T	N	54	4625	N
55	5609	N	56	764T	N
57	5612	N	58	728T	N
59	6620	N	60	5603	N
61	1605	N			

Legend: N=DNA analysis is consistent with the subject NOT carrying Factor 13 Deficiency (F13) in Wagyu cattle

**Factor 13 Deficiency in Wagyu (F13) (Semen)**

Sample No.	Sample ID	Factor 13 Deficiency in Wagyu	Sample No.	Sample ID	Factor 13 Deficiency in Wagyu
62	626S MICH/001 FB6637 259KB1009 00078 EBS/W	N	63	LMR KAGEMUSHA 2 638S FB6900 259KB1011 00528 EBS/W	N
64	607S MICH/400 FB6425 259KB1006 00088 EBS/W	N	65	LMR MICHIFUKU 784T FB8586 259KB1019 00409 EBS/W	N
66	LMR MICHIFUKU 810T FB8610 259KB1018 00479 EBS/W	N	67	54KB22 TAKAZAKURA 14767 11-27-95 CSS NEW ERA	N
68	LMR TOSHIRO 1/3 723T FB7475 259KB1016 01658 EBS/W CSS	N	69	LMR MICHIFUKU 630S FB6714 259KB1012 00648 EBS/W	N
70	LMR MICHIFUKU 807T FB8608 259KB1025 02309 EBS/W	N	71	U0 54KB61 LMR YO JIMBO ET FB6761 07263 CSS LONE MT	N
72	LMR TOSHIRO 3/3 720T FB7472 259KB1015 01628 EBS/W CSS	N	73	LMR YAK-3612 766T FB7794 259KB1024 02239 EBS/W CSS	N
74	237WG0003 BAR R YASAFUKU 42K FB5072 06/08/06 CSS	N	75	LMR ITOZURUDO I 8119U FB8329 259KB1032 02749 EBS/W	N
76	LMR KAGEMUSHA 639S FB6901 259KB1003 00648 EBS/W	N	77	BAR R 12P FB5665 154 KB034 02506 EBS/W CSS	N
78	625S 068/TAK FB6636 259KB1008 00108 EBS/W	N	79	LMR TAKAZAKURA 772T FB7800 259KB1020 00409 EBS/W	N
80	LMR SANJIRO 6035 FB6288 259KB1001 00668 EBS/W	N	81	54KB76 LMR JIRO FB7459 05-22-08 LONE MT 711T	N
82	310324A 259KB1014 01408 EBS/W CSS 719T	N	83	88KB2116 SANJIROU 1 51600 FB2501 WORLD K	N

Legend: N=DNA analysis is consistent with the subject NOT carrying Factor 13 Deficiency (F13) in Wagyu cattle

**Claudin 16 in Wagyu (CL16) PCR (Hair)**

Sample No.	Sample ID	Claudin 16 in Wagyu	Sample No.	Sample ID	Claudin 16 in Wagyu
1	0102X	N	2	0100X	N
3	0106X	N	4	0125X	N
5	0126X	N	6	0122X	N
7	0123X	N	8	0136X	N
9	0131X	N	10	0110X	N
11	0127X	N	12	0128X	N
13	0124X	N	14	9313W	N
15	9316W	N	16	9238	N
17	9281	N	18	9223	N
19	9220	N	20	9205	N
21	9222	N	22	9224	N
23	9270	N	24	814	N

Sample No.	Sample ID	Claudin 16 in Wagyu	Sample No.	Sample ID	Claudin 16 in Wagyu
25	817	N	26	801U VICS	N
27	8146U	N	28	799T	N
29	770T	N	30	8108U	N
31	797T	N	32	738T	N
33	8151U	N	34	804T	N
35	821T	N	36	756T	N
37	8112U	N	38	779	N
39	3655	N	40	6621	N
41	624S	N	42	4622	N
43	713T	N	44	714T	N
45	726T	N	46	3602	N
47	622S	N	48	644S	N
49	609S	N	50	747T	N
51	748T	N	52	801T	N
53	820T	N	54	4625	N
55	5609	N	56	764T	N
57	5612	N	58	728T	N
59	6620	N	60	5603	N
61	1605	N			

Legend: N=DNA analysis is consistent with the subject NOT carrying Claudin 16 (CL16) in Wagyu cattle

#### Claudin 16 in Wagyu (CL16) PCR (Semen)

Sample No.	Sample ID	Claudin 16 in Wagyu	Sample No.	Sample ID	Claudin 16 in Wagyu
62	626S MICH/001 FB6637 259KB1009 00078 EBS/W	NR	63	LMR KAGEMUSHA 2 638S FB6900 259KB1011 00528 EBS/W	NR
64	607S MICH/400 FB6425 259KB1006 00088 EBS/W	NR	65	LMR MICHIFUKU 784T FB8586 259KB1019 00409 EBS/W	NR
66	LMR MICHIFUKU 810T FB8610 259KB1018 00479 EBS/W	NR	67	54KB22 TAKAZAKURA 14767 11-27-95 CSS NEW ERA	NR
68	LMR TOSHIRO 1/3 723T FB7475 259KB1016 01658 EBS/W CSS	NR	69	LMR MICHIFUKU 630S FB6714 259KB1012 00648 EBS/W	NR
70	LMR MICHIFUKU 807T FB8608 259KB1025 02309 EBS/W	NR	71	U0 54KB61 LMR YO JIMBO ET FB6761 07263 CSS LONE MT	NR
72	LMR TOSHIRO 3/3 720T FB7472 259KB1015 01628 EBS/W CSS	NR	73	LMR YAK-3612 766T FB7794 259KB1024 02239 EBS/W CSS	NR
74	237WG0003 BAR R YASAFUKU 42K FB5072 06/08/06 CSS	NR	75	LMR ITOZURUDOI 8119U FB8329 259KB1032 02749 EBS/W	NR
76	LMR KAGEMUSHA 639S FB6901 259KB1003 00648 EBS/W	NR	77	BAR R 12P FB5665 154 KB034 02506 EBS/W CSS	NR
78	625S 068/TAK FB6636 259KB1008 00108 EBS/W	NR	79	LMR TAKAZAKURA 772T FB7800 259KB1020 00409 EBS/W	NR

Sample No.	Sample ID	Claudin 16 in Wagyu	Sample No.	Sample ID	Claudin 16 in Wagyu
80	LMR SANJIRO 6035 FB6288 259KB1001 00668 EBS/W	NR	81	54KB76 LMR JIRO FB7459 05-22-08 LONE MT 711T	NR
82	310324A 259KB1014 01408 EBS/W CSS 719T	NR	83	88KB2116 SANJIROU 1 51600 FB2501 WORLD K	NR

Legend: NR=A result could not be obtained for this sample

### Spherozystosis in Wagyu (B3) PCR (Hair)

Sample No.	Sample ID	Spherozystosis in Wagyu	Sample No.	Sample ID	Spherozystosis in Wagyu
1	0102X	N	2	0100X	N
3	0106X	N	4	0125X	N
5	0126X	N	6	0122X	N
7	0123X	N	8	0136X	N
9	0131X	N	10	0110X	N
11	0127X	N	12	0128X	N
13	0124X	N	14	9313W	N
15	9316W	N	16	9238	N
17	9281	N	18	9223	N
19	9220	N	20	9205	N
21	9222	N	22	9224	N
23	9270	N	24	814	N
25	817	N	26	801U VICS	N
27	8146U	N	28	799T	N
29	770T	N	30	8108U	N
31	797T	N	32	738T	N
33	8151U	N	34	804T	N
35	821T	N	36	756T	N
37	8112U	N	38	779	N
39	3655	N	40	6621	N
41	624S	N	42	4622	N
43	713T	N	44	714T	N
45	726T	N	46	3602	N
47	622S	N	48	644S	N
49	609S	N	50	747T	N
51	748T	N	52	801T	N
53	820T	N	54	4625	N
55	5609	N	56	764T	N
57	5612	N	58	728T	N
59	6620	N	60	5603	N
61	1605	N			

Legend: N=DNA analysis is consistent with the subject NOT carrying Spherozystosis (B3) in Wagyu cattle

**Spherocestosis in Wagyu (B3) PCR (Semen)**

Sample No.	Sample ID	Spherocestosis in Wagyu	Sample No.	Sample ID	Spherocestosis in Wagyu
62	626S MICH/001 FB6637 259KB1009 00078 EBS/W	N	63	LMR KAGEMUSHA 2 638S FB6900 259KB1011 00528 EBS/W	N
64	607S MICH/400 FB6425 259KB1006 00088 EBS/W	N	65	LMR MICHIFUKU 784T FB8586 259KB1019 00409 EBS/W	N
66	LMR MICHIFUKU 810T FB8610 259KB1018 00479 EBS/W	N	67	54KB22 TAKAZAKURA 14767 11-27-95 CSS NEW ERA	N
68	LMR TOSHIRO 1/3 723T FB7475 259KB1016 01658 EBS/W CSS	N	69	LMR MICHIFUKU 630S FB6714 259KB1012 00648 EBS/W	N
70	LMR MICHIFUKU 807T FB8608 259KB1025 02309 EBS/W	N	71	U0 54KB61 LMR YO JIMBO ET FB6761 07263 CSS LONE MT	N
72	LMR TOSHIRO 3/3 720T FB7472 259KB1015 01628 EBS/W CSS	N	73	LMR YAK-3612 766T FB7794 259KB1024 02239 EBS/W CSS	N
74	237WG0003 BAR R YASAFUKU 42K FB5072 06/08/06 CSS	N	75	LMR ITOZURUDO I 8119U FB8329 259KB1032 02749 EBS/W	N
76	LMR KAGEMUSHA 639S FB6901 259KB1003 00648 EBS/W	NR	77	BAR R 12P FB5665 154 KB034 02506 EBS/W CSS	N
78	625S 068/TAK FB6636 259KB1008 00108 EBS/W	N	79	LMR TAKAZAKURA 772T FB7800 259KB1020 00409 EBS/W	NR
80	LMR SANJIRO 6035 FB6288 259KB1001 00668 EBS/W	N	81	54KB76 LMR JIRO FB7459 05-22-08 LONE MT 711T	N
82	310324A 259KB1014 01408 EBS/W CSS 719T	N	83	88KB2116 SANJIROU 1 51600 FB2501 WORLD K	N

Legend: N=DNA analysis is consistent with the subject NOT carrying Spherocestosis (B3) in Wagyu cattle  
NR=A result could not be obtained for this sample

For all our clients that currently use TNT Express Couriers. Our account number has changed. Our new account number is 21857635.

POOLED FAECAL CULTURE FOR ALPACAS NOW AVAILABLE. The State Veterinary Diagnostic Laboratory advises that PFC of 5 faecal samples is now available from the laboratory. The cost for culture is \$153.45 including GST

**Copies**

Michael Beattie (email: michael@wagyu.org.au)