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THE UNIVERSITY OF  
SYDNEY



# Final report

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## Collection of resource material for Johne's disease test validation in beef cattle

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Date published: 11 December 2011

### PUBLISHED BY

Meat & Livestock Australia Limited  
PO Box 1961  
NORTH SYDNEY NSW 2059

Meat & Livestock Australia acknowledges the matching funds provided by the Australian Government to support the research and development detailed in this publication.

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## Abstract

The diagnosis of bovine Johne's disease remains a problem because until recently there has been little novel research conducted and this has severely limited the development of new diagnostic tests and vaccines. In Project P.PSH.0297 translational research was conducted which aimed to deliver practical tools for industry in the near term. As a result a direct faecal PCR test was developed to detect the pathogen Mptb, but the test could not be validated due to insufficient samples from affected cattle. Because the test appeared to have potential, and if validated would provide results to producers within a few days instead of the current 3 months for culture, there was an imperative to procure suitable samples to validate the test.

A total of 2472 faecal and blood samples were collected in this project. Of the 2472 samples, 378 were selected for examination and were tested in both faecal culture and the new direct faecal PCR test. Of the 378 samples, 98 were positive in faecal culture and 111 were positive in faecal PCR. The selection of samples was successful for the purpose of validation of the PCR test. Remaining aliquots of the samples which were tested, as well as the samples which were not tested during this project were archived for future examination and represent a very valuable resource for BJD test development and validation, including in an active project P.PSH.0576.

The validation data for the new faecal PCR test are published in a addendum to the final report for project P.PSH.0297. Final data will be submitted to SCAHLS in January 2012 for approval for use of the test in the National Johne's Disease Program.

## Executive summary

As a result of the project it is now clear that a diagnostic test which had not been validated due to lack of suitable samples could now be submitted to the Sub Committee on Animal Health Laboratory Standards (SCAHLs) for approval for use in the national JD control program: the direct faecal PCR test. Additional validation of this test was recommended by the JD Research Advisory Group to provide better estimates of sensitivity and specificity. This was due to there being only a low number of samples of suitable quality from infected herds, and few culture positive samples, despite appropriate effort to obtain these in project P.PSH.0297.

During this project a total of 2472 faecal and blood samples were collected. Of the 2472 samples, 378 were selected for examination and were tested in both faecal culture and the new direct faecal PCR test. Of the 378 samples, 98 were positive in faecal culture and 111 were positive in faecal PCR. The selection of samples was successful for the purpose of validation of the PCR test. Remaining aliquots of the samples which were tested, as well as the samples which were not tested during this project were archived for future examination and represent a very valuable resource for BJD test development and validation, including in an active project P.PSH.0576.

The direct faecal PCR test will be a breakthrough for the beef cattle industry. Previously, faecal samples were collected, sent to a laboratory and 3 months would elapse before negative test results could be confirmed. For cattle sales this meant considerable forward planning and great inconvenience for the producer. Where culture was used to confirm a suspected herd infection, for example after positive or suspect ELISA test results, the long delay caused considerable additional anxiety for the producer. The new test overcomes these problems because it can provide results within a few days of receipt of samples at a laboratory. It will cost no more than culture. Furthermore it is suitable for testing pooled faecal samples, which enables a cheap method of herd testing, either to detect infection or to show that it is not present in herds in the Market Assurance Program. The test will also be suitable for environmental testing.

Final data will be submitted to SCAHLs in January 2012 for approval for use of the test in the National Johne's Disease Program.

## Table of contents

Abstract.....	2
Executive summary.....	3
1. Background.....	5
2. Objectives.....	6
3. Methodology.....	6
4. Results.....	7
5. Conclusion.....	8
6. Acknowledgements.....	8
7. References.....	8
8. Appendix.....	9
8.1 Appendix 1. Samples collected from a BJD affected farm (FNAP TAS03).....	9

## 1. Background

The project is part of MLA's commitment to the National Johne's Disease Program. It is an adjunct to a prior basic research project on JD, specifically P.PSH.0297.

Bovine Johne's disease (BJD) caused by *Mycobacterium avium* subsp. *paratuberculosis* (Mptb) is a significant issue for the dairy industry in south eastern Australia and a sporadic problem in beef cattle. Efforts to reduce the within-herd prevalence of BJD within the dairy industry have been quite successful using conventional technologies, and concomitant efforts to prevent spread to the beef cattle sector also appear to be well accepted by industry. A vaccine for BJD may soon be available; this is likely to be an adjunct to reduce prevalence in heavily infected dairy herds.

Internationally, BJD is considered to be a significant threat to the livestock sector. Several studies have confirmed direct economic loss, but a greater threat exists because of a perceived link with Crohn's disease in humans, and therefore concern exists about ensuring future market access for livestock products. Public health authorities in many developed countries have adopted a neutral position on the possible link between Mptb originating in livestock and the occurrence of the organism and disease in humans. Nevertheless, animal health authorities in many countries have introduced, or plan to introduce, control programs for BJD. These will depend on accurate diagnostic tests, which are still lacking. Consequently there are large research programs on BJD in the EU/Europe, Japan, New Zealand and North America and smaller research programs in many other places. For market access insurance, Australia needs to be engaged with R&D at an international level.

Mptb bacteria are spread via the faeces of infected cattle, and they may persist in the environment for prolonged periods given the right conditions. Young calves are the most susceptible to infection, and most infections occur within the first few months of life. Bacteria ingested from the milk or the environment soon infect the lining of the gut, resulting in a slowly progressing, chronic inflammation. The consequences of this are an inability to absorb nutrients, resulting in chronic wasting and death. BJD is a very slow progressing disease with the average incubation period (time from infection to clinical signs) of 5 years (range 3-15 years). There are no effective treatments available. Infected animals usually start shedding bacteria into the environment prior to the development of any signs of clinical disease.

There are two overarching themes for diagnosis of Johne's disease – detection of the pathogen, and detection of host responses directed against the pathogen. These have not changed conceptually for decades. This project concerns pathogen detection. Pathogen detection by culture remains the gold standard test for JD but the lengthy delay between submission of samples to a laboratory, and the availability of results has been a major constraint to practical use of culture. For this reason the development of a rapid faecal test has been an objective internationally for many years. Rapid detection methods for Mptb based on PCR are appearing in the literature and being commercialised, with increasing frequency, but validation data are uncommon. In Australia, a test cannot be used in a national control program unless it has been properly validated. This is fortunate because when new PCR tests for Johne's disease have been applied in the field for surveillance purposes, discrepancies with culture results have affected the classification of herd status and have aroused concern (Buckley and Cashman, 2009; Orpin and Sibley, 2009) with a call for "large scale examinations of the available tests". This issue was highlighted again in a recent publication about the Tetracore VetAlert™ Johne's real time PCR test: "Although a new MAP detection method has been added to the list of approved Johne's test methods, the test has yet to be formally evaluated in the field" (Alinovi et al., 2009); in this study only 143 samples, 35 of which were culture positive,

were tested and compared to culture with Bayesian methods incorporating the manufacturer's estimates of sensitivity and specificity. A further problem is the impact of international variation in culture protocols to the extent that we cannot readily evaluate or compare the many new molecular methods that are being developed, particularly their sensitivities. However, these types of methods have the potential to meet the characteristics of an ideal method and therefore replace culture.

A new direct faecal PCR test was developed in project P.PSH.0297. However, additional validation of this test was recommended by the JD Research Advisory Group to provide better estimates of sensitivity and specificity. This was due to there being only a low number of samples of suitable quality from infected herds, and few culture positive samples, despite appropriate effort to obtain these in project P.PSH.0297. The present project was designed specifically to obtain the samples necessary for validation of the new test, and to process these using the best available culture method in parallel with the new PCR test.

This project is a step towards the goal of control and prevention of Johne's disease.

## **2. Objectives**

At the completion of the Project, the University will have completed the following to MLA's satisfaction:

1. To collect faecal and blood samples from approximately 2000 head of beef cattle by 1 December 2011, ship samples to Sydney, archive and store them for future testing.
2. To test approximately 200 high priority samples using faecal culture, faecal PCR and serum ELISA for Johne's disease and report faecal PCR results by 31 March 2012.
3. To incorporate the results into a dataset for validation of a faecal PCR test for use in beef cattle.

## **3. Methodology**

MLA is committed to investing in top quality scientific research, performed by suitably qualified, experienced and registered researchers and organisations. In experiments that involve livestock, MLA acknowledges that such research needs to be done under the auspices of a recognised Animal Care and Ethics Committee (AEC). The responsibility for obtaining AEC approval lies with the researcher. MLA has in the past not specifically asked for evidence that such AEC approval had indeed been obtained.

A beef cattle property in north-western Tasmania with a high prevalence of BJD was identified through the BJD Financial Non-Financial Assistance Program (FNFAP) (Cattle Council of Australia). A private veterinary practice (Smithton Vets, Tasmania) was contracted to collect faecal and blood samples from adult cattle from this farm at the time they were yarded for paratuberculosis vaccination in July 2011.

Samples were packed on ice and shipped to Sydney by express courier. Serum was harvested, divided into aliquots and stored at -20 degrees C. Faeces were divided into aliquots and stored at -80 degrees C. All samples were individually identified with computer generated labels matched to a database entry.

Prior laboratory records for cattle from the farm included BJD ELISA results for samples that were collected in the period November 2010 to February 2011; these were obtained as paper records from Smithton Vets and transcribed into an excel spreadsheet. These records included mob-level data such as age group. The owners of the farm provided animal records in a spreadsheet extracted from a farm herd recording database; the date of birth and ear tag of adult cattle was extracted and joined to the laboratory results using Microsoft Access. The results of faecal culture and direct faecal PCR (see below) were added to this file to create a comprehensive spreadsheet file.

In order to ensure that faecal samples were examined from a representative range of BJD disease states (i.e. early through to late), ELISA positivity was not the criterion for selection as ELISA positivity is known to be associated with multibacillary or advanced stages of BJD. Rather, the ELISA data from samples collected in January 2011 were used to identify mobs of cattle with predicted high prevalence of faecal shedding of Mptb. Mob identity was not precise nor necessarily consistent between January and July 2011, but it was reasoned that cattle would cluster during mustering and that there was a reasonable probability that individuals yarded with known ELISA reactors were more likely than not to be associated with the same mob. Therefore samples were selected from among more than 2000 individual samples based on the frequency of ELISA reactors, using visual examination of paper-based ELISA results for the entire herd. Runs of ear tags were selected on pages where there was obviously a greater than average density of ELISA reactors, until sufficient number of faecal samples had been selected.

The selected faecal samples were cultured using the BACTEC radiometric system and also tested using the HT-J direct faecal PCR test. The results of the two tests were compared and those data were pooled with data from other herds to create a large set of results for subsequent analysis of test sensitivity and specificity relative to culture and known herd status (i.e. herd level and individual level sensitivity and specificity compared to faecal culture). The results were reported as an addendum to the final report for project P.PSH.0297.

Faecal culture and PCR results were provided to the FNFAF coordinator and Smithton Vets to assist with decision making in the herd, as there is an attempt underway to limit the impact of Johne's disease through vaccination. Faecal test data may be useful to prioritise the culling of animals which are shedding high numbers of JD bacteria in their faeces.

Samples which were not tested during this project will be stored for future examination and represent a very valuable resource for future test development and validation, including in an active project P.PSH.0576.

## 4. Results

A total of 2472 faecal and blood samples were collected in this project under the following laboratory submission numbers SVC11/135 (n=1168), SVC11/154 (n=688), SVC11/156 (n=333) and SVC11/157 (n=283).

Of the 2472 samples, 378 were selected for examination and were tested in both faecal culture and the new direct faecal PCR test. Of the 378 samples, 98 were positive in faecal culture and 111 were positive in faecal PCR. The selection of samples was successful for the purpose of validation of the PCR test that had been developed in project P.PSH.0297.

Remaining aliquots of the samples which were tested, as well as the samples which were not tested during this project were archived for future examination and represent a very valuable resource for diagnostic test development and validation, including in an active project P.PSH.0576.

## 5. Conclusion

The diagnosis of bovine Johne's disease remains a problem because until recently there has been very little basic research conducted anywhere in the world, and most of the current knowledge is based on first principles, including those derived from study of human tuberculosis in the early 1900s. Practical applications of this include culture, histopathology, whole blood interferon gamma assay, ELISA and intradermal skin tests for JD, none of which currently are very sensitive.

As a result of the project it is now known that faeces can be tested quickly and accurately using direct PCR. It is now clear that a diagnostic test which had severe practical and technical limitations may be of substantial benefit in the near future. The direct faecal PCR test can provide results to producers within a few days instead of the current 3 months for culture. The direct faecal PCR test is a breakthrough for the beef cattle industry. Previously, faecal samples were collected, sent to a laboratory and 3 months would elapse before negative test results could be confirmed. For cattle sales this meant considerable forward planning and great inconvenience for the producer. Where culture was used to confirm a suspected herd infection, for example after positive or suspect ELISA test results, the long delay caused considerable additional anxiety for the producer. The new test overcomes these problems because it can provide results within a few days of receipt of samples at a laboratory. It will cost no more than culture, and may be of similar accuracy. Furthermore, following validation of pooling rates, it may be suitable for testing pooled faecal samples, which would enable a cheap method of herd testing, either to detect infection or to show that it is not present in herds in the Market Assurance Program. The test will also be suitable for environmental testing. Additional validation of this test was recommended by the JD Research Advisory Group and has now been completed using samples collected during this project. The data will be submitted in January 2011 to the SubCommittee on Animal Health Laboratory Standards (SCAHLs) for approval for use in the national Johne's Disease Program.

## 6. Acknowledgements

Staff of Smithon Veterinary Clinic, specifically Neil and Craig provided expert service in the collection of faecal and blood samples, in a remote location and often during very poor weather, and facilitated shipment of the samples to Camden so that sample integrity was maintained. David Allan, BJD councillor, provided essential liaison throughout the project. The authors would also like to thank the staff of the Farm Animal and Veterinary Public Health laboratory group at the University of Sydney: Mrs Anna Waldron, Mrs Ann-Michele Whittington, Mrs Pabitra Dhungyel, Mr Craig Kristo and Ms Marion Saddington and Ms Fran Galea at Elizabeth Macarthur Agricultural Institute for processing the samples.

## 7. References

Alinovi, C.A., Ward, M.P., Lin, T.L., Moore, G.E., Wu, C.C., 2009, Real-time PCR, compared to liquid and solid culture media and ELISA, for the detection of *Mycobacterium avium* ssp. *paratuberculosis*. *Veterinary Microbiology* 136, 177-179.

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## **8. Appendix**

### **8.1 Appendix 1. Samples collected from a BJD affected farm (FNAP TAS03)**

### **B.AHE.0074 TAS03 Summary of Results**

Data for 2473 faecal samples from TAS03 (1 sample not tested) Age is based on mob designation at time of sample collection; DOB is from farm database records

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
3351	11/135	1	1435	F	MIX	15.10.2004	spring	0		
3352	11/135	2	1377	F	4YO	01.09.2003	spring	0		
3353	11/135	3	1144	F	4YO	12.02.2003	spring	0		
3354	11/135	4	1155	F	3YO	08.02.2003	spring	0		
3355	11/135	5	1646	F	4YO	01.04.2005	spring	0	0	1
3356	11/135	6	475	F	MIX	03.08.1998	spring	0		
3357	11/135	7	350	F	3YO	27.03.1998	spring	0		
3358	11/135	8	739	F	4YO	15.10.1999	spring	0		
3359	11/135	9	790	F	4YO	01.09.1999	spring	0		
3360	11/135	10	606	F	3YO	15.07.1999	spring	0		
3361	11/135	11	1037	F	4YO	01.08.2001	spring	0		
3362	11/135	12	1055	F	4YO	04.02.2001	spring	0		
3363	11/135	13	719	F	3YO	01.02.1999	spring	0		
3364	11/135	14	849	F	3YO	01.12.2000	spring	0		
3365	11/135	15	980	F	4YO	30.01.2000	spring	0		
3366	11/135	16	1038	F	4YO	01.08.2001	spring	0		
3367	11/135	17	136							
3368	11/135	18	1277	F	4YO	01.09.2003	spring	0		
3369	11/135	19	1421	F	MIX			0		
3370	11/135	20	1644	F	4YO	01.04.2005	spring	0	0	0
3371	11/135	21	453	F	3YO	26.07.1998	spring	0		
3372	11/135	22	1290	F	MIX	01.09.2003	spring	0	0	0
3373	11/135	23	1138	F	4YO	01.02.2003	spring	0		
3374	11/135	24	123							
3375	11/135	25	1355	F	4YO	01.09.2003	spring	0	0	0
3376	11/135	26	172							
3377	11/135	27	1184	F	MIX	01.03.2003	spring	0		
3378	11/135	28	580	F	4YO	30.11.1998	spring	0		
3379	11/135	29	1053	F	3YO	05.02.2001	spring	0		
3380	11/135	30	468	F	MIX	31.07.1998	spring	0		
3381	11/135	31	1732	F	4YO	01.09.2005	spring	0		
3382	11/135	32	1786	F	MIX			1	1	0
3383	11/135	33	1396	F	MIX	15.10.2004	spring	0		
3384	11/135	34	1734	F	MIX	01.03.2006	spring	0		
3385	11/135	35	1200	F	4YO	31.01.2004	spring	0		
3386	11/135	36	1433	F	MIX	01.09.2004	spring	0		
3387	11/135	37	1206	F	3YO	09.02.2004	spring	0		
3388	11/135	38	1562	F	4YO	01.09.2004	spring	0	0	0
3389	11/135	39	883	F	MIX	01.09.2000	spring	0		
3390	11/135	40	738	F	MIX	01.09.1999	spring	0		
3391	11/135	41	944	F	MIX	31.01.2000	spring	0		
3392	11/135	42	278	F	4YO	03.02.1998	spring	0		
3393	11/135	43	791	F	3YO	01.02.1999	spring	0		
3394	11/135	44	345	F	4YO	26.03.1998	spring	0		
3395	11/135	45	027	F	MIX	25.03.1995	spring	0		
3396	11/135	46	1691	F	MIX	01.02.2006	spring	0		
3397	11/135	47	1319	F	4YO	01.09.2003	spring	0		
3398	11/135	48	292	F	4YO	09.02.1998	spring	0		
3399	11/135	49	1774	F	MIX			0		
3400	11/135	50	730	F	4YO	15.10.1999	spring	0		
3401	11/135	51	1326	F	4YO	01.09.2003	spring	0		
3402	11/135	52	681	F	MIX	25.02.1999	spring	0		
3403	11/135	53	1148	F	3YO	02.02.2003	spring	0		
3404	11/135	54	776	F	4YO			0		
3405	11/135	55	879	F	MIX	01.09.2000	spring	0		
3406	11/135	56	W140	F	4YO	06.05.2001	spring	0		
3407	11/135	57	1838	F	4YO	01.04.2006	spring	0	0	0
3408	11/135	58	821	F	MIX	01.09.2000	spring	0		
3409	11/135	59	303	F	MIX	19.02.1998	spring	0		
3410	11/135	60	045	F	MIX	29.05.1995	spring	0		
3411	11/135	61	1036	F	4YO	01.08.2001	spring	0		
3412	11/135	62	293	F	3YO	10.02.1998	spring	0		
3413	11/135	63	1151	F	MIX	12.02.2003	spring	0		
3414	11/135	64	847	F	MIX	01.09.2000	spring	0		
3415	11/135	65	897	F	MIX	01.09.2000	spring	0		
3416	11/135	66	1936	F	MIX	01.09.2005	spring	0		
3417	11/135	67	1332	F	3YO	01.09.2003	spring	0	0	0
3418	11/135	68	921	F	3YO	28.01.2000	spring	0		
3419	11/135	69	1738	F	4YO	01.09.2005	spring	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
3420	11/135	70	665	F	3YO	25.02.1999	spring	0		
3421	11/135	71	724	F	4YO	01.09.2000	spring	0		
3422	11/135	72	1854	F	MIX	01.09.2005	spring	0		
3423	11/135	73	1052	F	MIX	07.02.2001	spring	0		
3424	11/135	74	1697	F	3YO	01.02.2006	spring	0		
3425	11/135	75	1305	F	3YO	01.09.2003	spring	0		
3426	11/135	76	1127	F	4YO	01.06.2003	spring	0		
3427	11/135	77	145	F	3YO	14.10.2007	summer	0		
3428	11/135	78	917	F	4YO	09.02.2001	spring	0		
3429	11/135	79	1824	F	4YO	01.09.2005	spring	0	0	0
3430	11/135	80	1597	F	4YO	01.04.2005	spring	1	1	1
3431	11/135	81	1379	F	MIX	01.09.2003	spring	0		
3432	11/135	82	1660	F	MIX	01.04.2005	spring	0	0	0
3433	11/135	83	1910	F	MIX	01.09.2005	spring	0		
3434	11/135	84	979	F	4YO	01.03.2001	spring	0		
3435	11/135	85	875	F	4YO	01.09.2000	spring	0		
3436	11/135	86	1845	F	MIX	01.09.2006	spring	0		
3437	11/135	87	1078	F	3YO	01.03.2002	spring	0		
3438	11/135	88	1641	F	4YO	01.04.2005	spring	1	1	1
3439	11/135	89	1354	F	4YO	01.09.2003	spring	0	0	0
3440	11/135	90	105	F	3YO	23.07.1996	spring	0		
3441	11/135	91	725	F	4YO	15.11.1999	spring	0		
3442	11/135	92	572	F	4YO	26.11.1998	spring	0		
3443	11/135	93	2527	F	3YO	01.09.2007	spring	0		
3444	11/135	94	1182	F	MIX	01.03.2003	spring	0		
3445	11/135	95	1338	F	4YO	01.09.2003	spring	0	0	0
3446	11/135	96	1473	F	MIX	01.09.2004	spring	0		
3447	11/135	97	1077	F	4YO	01.02.2002	spring	0		
3448	11/135	98	970	F	3YO	01.11.2000	spring	0		
3449	11/135	99	1045	F	4YO	01.08.2001	spring	0		
3450	11/135	100	122	F	?	03.02.1997	spring	0		
3451	11/135	101	1758							
3452	11/135	102	1757	F	MIX			0		
3453	11/135	103	579	F	4YO	27.11.1998	spring	0		
3454	11/135	104	1715	F	MIX	01.09.2005	spring	0		
3455	11/135	105	X062	F	3YO	04.08.2002	spring	0		
3456	11/135	106	622	F	3YO	01.09.1999	spring	0		
3457	11/135	107	1195	F	4YO	05.02.2004	spring	0		
3458	11/135	108	971	F	3YO	28.11.2000	spring	0		
3459	11/135	109	1063	F	MIX	07.02.2001	spring	0		
3460	11/135	110	1169	F	4YO	01.04.2003	spring	0		
3461	11/135	111	1331	F	MIX	01.09.2003	spring	0	0	0
3462	11/135	112	960	F	3YO	01.12.2000	spring	0		
3463	11/135	113	1033	F	MIX	01.08.2001	spring	0		
3464	11/135	114	1448	F	4YO	01.04.2003	spring	0		
3465	11/135	115	1340	F	4YO	01.09.2003	spring	0	0	0
3466	11/135	116	1876	F	MIX	01.09.2005	spring	0		
3467	11/135	117	926	F	MIX	23.01.2000	spring	0		
3468	11/135	118	A165	F	MIX	01.09.2005	spring	0		
3469	11/135	119	2466	F	MIX	01.04.2007	spring	0		
3470	11/135	120	437	F	4YO	21.07.1998	spring	0		
3471	11/135	121	1219	F	MIX	04.02.2004	spring	0	0	0
3472	11/135	122	533	F	3YO	27.09.1998	spring	0		
3473	11/135	123	964	F	4YO	01.03.2001	spring	0		
3474	11/135	124	1863	F	MIX	01.04.2006	spring	0		
3475	11/135	125	1251	F	4YO	01.09.2003	spring	1	1	1
3476	11/135	126	1254	F	MIX	01.09.2003	spring	0	0	0
3477	11/135	127	581	F	MIX	30.12.1998	spring	0		
3478	11/135	128	W087	F	4YO	23.03.2001	spring	0		
3479	11/135	129	1027	F	MIX	01.08.2001	spring	0		
3480	11/135	130	1309	F	3YO	01.09.2003	spring	0		
3481	11/135	131	1559	F	4YO	01.09.2004	spring	0	0	0
3482	11/135	132	X068	F	MIX	02.08.2002	spring	0		
3483	11/135	133	1592	F	4YO	01.04.2005	spring	0	0	0
3484	11/135	134	854	F	MIX	27.12.1999	spring	0		
3485	11/135	135	999	F	MIX	01.02.2000	spring	0		
3486	11/135	136	1835	F	4YO	01.04.2006	spring	0	0	0
3487	11/135	137	1325	F	4YO	01.09.2003	spring	0		
3488	11/135	138	1523	F	MIX	15.10.2004	spring	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
3489	11/135	139	1098	F	4YO				0	0
3490	11/135	140	1557	F	MIX	15.10.2004	spring	0	0	0
3491	11/135	141	1363	F	MIX	01.09.2003	spring	0		
3492	11/135	142	806	F	4YO	01.09.2000	spring	0		
3493	11/135	143	905	F	MIX	01.04.2001	spring	0		
3494	11/135	144	1620	F	MIX	01.04.2005	spring	0	0	0
3495	11/135	145	1733	F	4YO	01.09.2005	spring	0		
3496	11/135	146	268							
3497	11/135	147	1065	F	MIX	04.02.2001	spring	0		
3498	11/135	148	1265	F	MIX	01.09.2003	spring	0		
3499	11/135	149	929	F	4YO	03.02.2000	spring	0		
3500	11/135	150	940	F	4YO	01.03.2001	spring	1	1	0
3501	11/135	151	1344	F	MIX	01.09.2003	spring	0	1	1
3502	11/135	152	1867	F	MIX	01.09.2005	spring	0		
3503	11/135	153	1415	F	4YO	15.10.2004	spring	0		
3504	11/135	154	1438	F	MIX	01.09.2004	spring	0		
3505	11/135	155	1179	F	4YO	01.04.2003	spring	0		
3506	11/135	156	1575	F	MIX	01.04.2005	spring	1	1	1
3507	11/135	157	1126	F	4YO	01.06.2003	spring	0		
3508	11/135	158	659	F	MIX	25.02.1999	spring	0		
3509	11/135	159	1707	F	MIX	01.09.2005	spring	0		
3510	11/135	160	705	F	4YO	27.02.1999	spring	0		
3511	11/135	161	672	F	4YO	27.02.1999	spring	0		
3512	11/135	162	1346	F	4YO	01.09.2003	spring	0	0	0
3513	11/135	163	X073	F	4YO	13.08.2002	spring	0		
3514	11/135	164	813	F	MIX	01.09.1999	spring	0		
3515	11/135	165	1915	F	4YO	01.03.2006	spring	0		
3516	11/135	166	1207	F	4YO	09.02.2004	spring	0		
3517	11/135	167	1011	F	4YO	09.02.2000	spring	0		
3518	11/135	168	W147	F	4YO	11.05.2001	spring	0		
3519	11/135	169	1069	F	4YO	23.01.2000	spring	0		
3520	11/135	170	620	F	4YO	01.09.1999	spring	0		
3521	11/135	171	1252	F	3YO	01.09.2003	spring	0	0	0
3522	11/135	172	662	F	4YO	28.11.1998	spring	0		
3523	11/135	173	1336	F	4YO	01.09.2003	spring	0	1	0
3524	11/135	174	1407	F	MIX	01.09.2004	spring	0		
3525	11/135	175	1837	F	3YO	15.04.2006	spring	0	0	0
3526	11/135	176	1901	F	MIX	01.03.2006	spring	0		
3527	11/135	177	1089	F	3YO	01.03.2002	spring	0		
3528	11/135	178	1922	F	4YO	01.03.2006	spring	0		
3529	11/135	179	1374	F	MIX	01.09.2003	spring	0		
3530	11/135	180	1244	F	MIX	01.09.2003	spring	0	0	0
3531	11/135	181	Y007			28.05.2003	spring			
3532	11/135	182	1211	F	MIX	04.02.2004	spring	0		
3533	11/135	183	1044	F	4YO	01.08.2001	spring	1	1	1
3534	11/135	184	993	F	4YO	01.03.2001	spring	0		
3535	11/135	185	X063	F	MIX	08.08.2002	spring	0		
3536	11/135	186	1198	F	3YO	01.02.2003	spring	0		
3537	11/135	187	1810	F	4YO			0	0	0
3538	11/135	188	1778	F	3YO			0		
3539	11/135	189	078	F	?	20.05.1996	spring	0		
3540	11/135	190	1453	F	MIX	01.09.2004	spring	0		
3541	11/135	191	733	F	3YO	15.10.1999	spring	0		
3542	11/135	192	1862	F	4YO	01.04.2006	spring	0		
3543	11/135	193	1068	F	MIX	26.01.2000	spring	0		
3544	11/135	194	2188	F	4YO	01.04.2006	spring	0		
3545	11/135	195	1110	F	3YO	01.02.2002	spring	0		
3546	11/135	196	1744	F	4YO	01.09.2005	spring	0		
3547	11/135	197	1830	F	MIX			1	1	1
3548	11/135	198	W193	M	?	04.06.2001	spring	0		
3549	11/135	199	1872	F	MIX	15.04.2006	spring	0		
3550	11/135	200	1946	F	MIX	01.03.2006	spring	0		
3551	11/135	201	1896	F	4YO	01.09.2005	spring	0		
3552	11/135	202	638	F	4YO	01.09.1999	spring	0		
3553	11/135	203	621	F	3YO	01.09.1999	spring	0		
3554	11/135	204	904	F	4YO	01.04.2001	spring	0		
3555	11/135	205	1241	F	4YO	01.09.2003	spring	0	0	0
3556	11/135	206	800	F	3YO	15.07.1999	spring	0		
3557	11/135	207	1345	F	4YO	01.09.2003	spring	1	1	1

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
3558	11/135	208	1125	F	4YO	01.06.2003	spring	0		
3559	11/135	209	443	F	4YO	24.07.1998	spring	0		
3560	11/135	210	535	F	4YO	27.09.1998	spring	0		
3561	11/135	211	1604	F	MIX	01.04.2005	spring	0	0	0
3562	11/135	212	405	F	MIX	22.05.1998	spring	0		
3563	11/135	213	643	F	4YO	01.09.1999	spring	0		
3564	11/135	214	1480	F	MIX	15.10.2004	spring	0	0	0
3565	11/135	215	W042	F	MIX	02.02.2001	spring	0		
3566	11/135	216	1335	F	4YO	01.09.2003	spring	0	0	0
3567	11/135	217	1716	F	MIX	01.04.2006	spring	0		
3568	11/135	218	1714	F	MIX	01.09.2006	spring	0		
3569	11/135	219	1482	F	4YO	15.10.2004	spring	1	1	0
3570	11/135	220	516	F	MIX	22.09.1998	spring	0		
3571	11/135	221	1369	F	4YO	01.09.2003	spring	0		
3572	11/135	222	701	F	MIX	25.11.1998	spring	0		
3573	11/135	223	1591	F	MIX	01.04.2005	spring	0	0	0
3574	11/135	224	2664	F	MIX	01.09.2005	spring	0		
3575	11/135	225	2685	F	3YO	01.09.2007	spring	0		
3576	11/135	226	A109	F	4YO	20.07.2005	spring	0		
3577	11/135	227	797	F	4YO	15.02.1999	spring	0		
3578	11/135	228	745	F	MIX	15.09.1999	spring	0		
3579	11/135	229	1268	F	3YO	01.09.2003	spring	0		
3580	11/135	230	1877	F	MIX	01.09.2005	spring	0		
3581	11/135	231	1698	F	MIX	01.02.2006	spring	0		
3582	11/135	232	619	F	MIX	18.09.1999	spring	0		
3583	11/135	233	1051	F	4YO	02.02.2000	spring	0		
3584	11/135	234	1642	F	MIX	01.04.2005	spring	1	1	1
3585	11/135	235	604	F	MIX	01.09.1999	spring	0		
3586	11/135	236	677	F	3YO	01.03.1999	spring	0		
3587	11/135	237	788	F	3YO	01.02.1999	spring	0		
3588	11/135	238	1279	F	4YO	01.09.2003	spring	0		
3589	11/135	239	216	F	4YO	04.09.1997	spring	0		
3590	11/135	240	680	F	4YO	26.02.1999	spring	0		
3591	11/135	241	088	F	MIX	25.05.1996	spring	0		
3592	11/135	242	1931	F	4YO	01.09.2005	spring	0		
3593	11/135	243	1815	F	4YO	01.09.2005	spring	0	0	1
3594	11/135	244	1352	F	4YO	01.09.2003	spring	0	0	0
3595	11/135	245	1741	F	MIX	01.08.2006	spring	0		
3596	11/135	246	1156	F	MIX	02.02.2003	spring	0		
3597	11/135	247	1375	F	3YO	01.09.2003	spring	0		
3598	11/135	248	1713	F	MIX	01.09.2005	spring	0		
3599	11/135	249	1812	F	3YO	01.09.2005	spring	0	0	0
3600	11/135	250	1755	F	MIX		0			
3601	11/135	251	192	F	4YO	12.08.1997	spring	0		
3602	11/135	252	179	F	4YO		0			
3603	11/135	253	361	F	MIX	29.03.1998	spring	0		
3604	11/135	254	1202	F	4YO	03.02.2004	spring	0		
3605	11/135	255	1941	F	MIX	01.09.2005	spring	0		
3606	11/135	256	1708	F	MIX	01.09.2005	spring	0		
3607	11/135	257	946	F	MIX	28.01.2000	spring	0		
3608	11/135	258	1104	F	MIX	01.02.2002	spring	0		
3609	11/135	259	1341	F	MIX	01.09.2003	spring	0	0	0
3610	11/135	260	870	F	3YO	01.12.1999	spring	0		
3611	11/135	261	334	F	4YO	20.03.1998	spring	0		
3612	11/135	262	W104	F	MIX	26.03.2001	spring	0		
3613	11/135	263	1598	F	MIX	01.04.2005	spring	1	1	0
3614	11/135	264	1299	F	MIX	01.09.2003	spring	0	0	0
3615	11/135	265	1062	F	4YO	05.02.2001	spring	0		
3616	11/135	266	X078	F	4YO	17.08.2002	spring	0		
3617	11/135	267	933	F	4YO	26.01.2000	spring	0		
3618	11/135	268	1677	F	4YO	01.02.2007	spring	0	0	0
3619	11/135	269	932	F	4YO	01.04.2001	spring	0		
3620	11/135	270	503	F	4YO	19.09.1998	spring	0		
3621	11/135	271	A140	F	3YO	08.08.2005	spring	0		
3622	11/135	272	1579	F	4YO	01.04.2005	spring	0	0	0
3623	11/135	273	1636	F	4YO	01.04.2005	spring	0	0	0
3624	11/135	274	306	F	4YO	20.02.1998	spring	0		
3625	11/135	275	418	F	4YO	25.05.1998	spring	0		
3626	11/135	276	W092	F	4YO	23.03.2001	spring	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
3627	11/135	277	1029	F	3YO			0		
3628	11/135	278	1367	F	MIX	01.09.2003	spring	0		
3629	11/135	279	1724	F	MIX	01.09.2005	spring	0		
3630	11/135	280	1842	F	MIX	01.09.2005	spring	0		
3631	11/135	281	244	F	4YO	18.10.1997	spring	0		
3632	11/135	282	1513	F	4YO	01.09.2004	spring	0	0	0
3633	11/135	283	969	F	4YO	01.04.2001	spring	0		
3634	11/135	284	1327	F	4YO	01.09.2003	spring	0		
3635	11/135	285	1609	F	4YO	01.04.2005	spring	0	0	0
3636	11/135	286	1554	F	4YO	01.09.2004	spring	0	0	0
3637	11/135	287	1384	F	4YO	15.10.2004	spring	0		
3638	11/135	288	1775	F	4YO			0		
3639	11/135	289	1599	F	4YO	01.04.2005	spring	0	0	0
3640	11/135	290	707	F	MIX	19.03.1999	spring	0		
3641	11/135	291	493	F	4YO	13.09.1998	spring	0		
3642	11/135	292	1481	F	MIX	15.10.2004	spring	0	0	0
3643	11/135	293	1431	F	MIX	01.09.2004	spring	0		
3644	11/135	294	1763	F	3YO			0		
3645	11/135	295	W088	F	4YO	23.03.2001	spring	0		
3646	11/135	296	1752	F	4YO			0		
3647	11/135	297	882	F	MIX	01.09.1999	spring	0		
3648	11/135	298	1095	F	MIX	01.02.2002	spring	0		
3649	11/135	299	1926	F	MIX			1	1	1
3650	11/135	300	922	F	4YO	01.03.2001	spring	0		
3651	11/135	301	1850	F	MIX	01.09.2005	spring	0		
3652	11/135	302	W128	F	3YO	01.05.2001		1	1	1
3653	11/135	303	168	F	MIX	10.06.1997	spring	0		
3654	11/135	304	1049	F	4YO	03.02.2001	spring	0		
3655	11/135	305	W763	F	4YO	24.04.2001	spring	0		
3656	11/135	306	1380	F	4YO	01.09.2003	spring	0		
3657	11/135	307	1014	F	MIX	06.02.2000	spring	0		
3658	11/135	308	1728	F	MIX	01.09.2005	spring	0		
3659	11/135	309	1890	F	3YO	01.03.2006	spring	0		
3660	11/135	310	1101	F	MIX	01.08.2001	spring	0		
3661	11/135	311	A146	F	MIX	09.08.2005	spring	0		
3662	11/135	312	1582	F	4YO	01.04.2005	spring	0	0	0
3663	11/135	313	1933	F	MIX	01.09.2006	spring	0		
3664	11/135	314	W005	F	4YO	01.01.2001	spring	0		
3665	11/135	315	1301	F	4YO	01.09.2003	spring	0		
3666	11/135	316	961	F	4YO	01.03.2001	spring	0		
3667	11/135	317	1600	F		01.04.2005	spring		0	0
3668	11/135	318	1543	F	MIX	15.10.2001	spring	0	0	0
3669	11/135	319	1026	F	4YO	01.08.2001	spring	0		
3670	11/135	320	128	F	MIX	04.04.1997	spring	0		
3671	11/135	321	1588	F	MIX	01.04.2005	spring	1	1	1
3672	11/135	322	196	F	MIX	13.08.1997	spring	0		
3673	11/135	323	901	F	4YO	01.02.2001	spring	0		
3674	11/135	324	346	F	4YO	26.03.1998	spring	0		
3675	11/135	325	1143	F	MIX	01.02.2002	spring	0		
3676	11/135	326	1243	F	MIX	01.09.2003	spring	0	0	0
3677	11/135	327	1551	F	MIX	15.10.2004	spring	1	1	1
3678	11/135	328	552	F	MIX	04.10.1998	spring	0		
3679	11/135	329	W003	F	4YO	01.01.2001	spring	0		
3680	11/135	330	992	F	4YO	01.03.2001	spring	0		
3681	11/135	331	435	F	3YO	01.06.1998	spring	0		
3682	11/135	332	573	F	4YO	26.11.1998	spring	0		
3683	11/135	333	1315	F	MIX	01.09.2003	spring	0		
3684	11/135	334	757	F	MIX	01.09.1999	spring	0		
3685	11/135	335	Y009			02.06.2003	spring		0	0
3686	11/135	336	1416	F	MIX	01.09.2004	spring	0		
3687	11/135	337	1736	F	3YO	01.03.2006	spring	0		
3688	11/135	338	1357	F	4YO	01.09.2003	spring	0	0	0
3689	11/135	339	1197	F	MIX	02.02.2004	spring	0		
3690	11/135	340	766	F	MIX	15.04.1999	spring	0		
3691	11/135	341	1823	F	MIX	01.09.2005	spring	0	0	0
3692	11/135	342	754	F	3YO	15.04.1999	spring	0		
3693	11/135	343	375	F	MIX	02.04.1998	spring	0		
3694	11/135	344	1866	F	MIX	01.03.2006	spring	0		
3695	11/135	345	967	F	4YO	01.03.2001	spring	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
3696	11/135	346	1286	F	4YO	01.09.2003	spring	0	0	0
3697	11/135	347	721	F	4YO	26.02.1999	spring	0		
3698	11/135	348	1239	F	3YO	01.02.2003	spring	0	0	0
3699	11/135	349	098	F	4YO	22.07.1996	spring	0		
3700	11/135	350	1829	F	MIX	01.09.2005	spring	0	0	0
3701	11/135	351	755	F	3YO	15.04.1999	spring	0		
3702	11/135	352	1324	F	3YO	01.09.2003	spring	0		
3703	11/135	353	014	F	MIX	16.03.1995	spring	0		
3704	11/135	354	1868	F	MIX	01.09.2005	spring	0		
3705	11/135	355	1532	F	MIX	15.10.2004	spring	0	0	0
3706	11/135	356	889	F	4YO	01.09.2000	spring	0		
3707	11/135	357	1368	F	4YO	01.09.2003	spring	0		
3708	11/135	358	410	F	4YO	23.05.1998	spring	0		
3709	11/135	359	498	F	4YO	18.09.1998	spring	0		
3710	11/135	360	W153	F	3YO	12.05.2001	spring	0		
3711	11/135	361	1590	F	MIX	01.09.2005	spring	0	0	0
3712	11/135	362	1832	F	MIX	01.09.2005	spring	0	0	0
3713	11/135	363	1803	F	MIX			0	0	0
3714	11/135	364	860	F	MIX	01.09.2000	spring	0		
3715	11/135	365	W033	F	MIX	02.02.2001	spring	0		
3716	11/135	366	939	F	3YO	02.02.2001	spring	0		
3717	11/135	367	1050	F	MIX	03.02.2001	spring	0		
3718	11/135	368	1287	F	MIX	01.09.2003	spring	0	0	0
3719	11/135	369	1296	F	MIX	01.09.2003	spring	1	1	1
3720	11/135	370	1638	F	MIX	01.04.2005	spring	0	0	0
3721	11/135	371	1653	F	MIX	01.04.2005	spring	0	0	0
3722	11/135	372	1328	F	MIX	01.09.2003	spring	0		
3723	11/135	373	1807	F	4YO			0	0	0
3724	11/135	374	1811	F	MIX	01.09.2005	spring	0	1	1
3725	11/135	375	1474	F	MIX	15.10.2004	spring	0		
3726	11/135	376	1495	F	MIX	01.09.2004	spring	0	0	0
3727	11/135	377	341	F	4YO	24.03.1998	spring	0		
3728	11/135	378	1455	F	4YO	15.10.2004	spring	0		
3729	11/135	379	1615	F		01.04.2005	spring		0	0
3730	11/135	380	1423	F		15.10.2004	spring			
3731	11/135	381	1248	F	4YO	01.09.2003	spring	0	0	0
3732	11/135	382	1888	F	MIX	01.03.2006	spring	0		
3733	11/135	383	1789	F	MIX			0		
3734	11/135	384	952	F	4YO	01.03.2001	spring	0		
3735	11/135	385	1536	F	MIX	15.10.2004	spring	0	1	0
3736	11/135	386	2164	F	3YO	01.04.2006	spring	0		
3737	11/135	387	460	F	MIX	29.07.1998	spring	0		
3738	11/135	388	1552	F	MIX	15.10.2004	spring	0	0	0
3739	11/135	389	1010	F	4YO	28.01.2000	spring	0		
3740	11/135	390	223	F	4YO	18.09.1997	spring	0		
3741	11/135	391	1425	F		15.10.2004	spring			
3742	11/135	392	X067	F	4YO	05.08.2002	spring	0		
3743	11/135	393	956	F	4YO	01.03.2001	spring	0		
3744	11/135	394	1720	F	MIX	01.04.2006	spring	0		
3745	11/135	395	1411	F	3YO	01.09.2004	spring	0		
3746	11/135	396	1443	F	4YO	01.09.2004	spring	0		
3747	11/135	397	709							
3748	11/135	398	7666							
3749	11/135	399	968	F	4YO	01.04.2001	spring	0		
3750	11/135	400	W302	F	4YO	07.07.2001	spring	0		
3751	11/135	401	W083	F	4YO	21.03.2001	spring	0		
3752	11/135	402	1531	F	4YO	01.09.2004	spring	0	0	0
3753	11/135	403	949	F	3YO	01.02.2000	spring	0		
3754	11/135	404	1273	F	MIX	01.09.2003	spring	0		
3755	11/135	405	329	F	4YO	16.03.1998	spring	0		
3756	11/135	406	636	F	MIX	01.09.1999	spring	0		
3757	11/135	407	833	F	4YO	01.09.2000	spring	0		
3758	11/135	408	1618	F	MIX	01.04.2005	spring	0	0	0
3759	11/135	409	1614	F	MIX	01.04.2005	spring	0	0	0
3760	11/135	410	W190	F	MIX	01.06.2001	spring	0		
3761	11/135	411	1016	F	3YO	04.02.2000	spring	0		
3762	11/135	412	1485	F	3YO	15.10.2004	spring	0	0	0
3763	11/135	413	983	F	3YO	01.02.2001	spring	0		
3764	11/135	414	1409	F	MIX	15.10.2004	spring	0		



FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
3765	11/135	415	1816	F	MIX	01.09.2005	spring	0	0	0
3766	11/135	416	1224	F	4YO	16.02.2004	spring	0	0	0
3767	11/135	417	664	F	MIX	25.11.1998	spring	0		
3768	11/135	418	1308	F	4YO	01.09.2003	spring	0		
3769	11/135	419	1381	F	4YO	01.02.2003	spring	0		
3770	11/135	420	X075	F	4YO	06.08.2002	spring	0		
3771	11/135	421	1054	F	MIX	07.02.2001	spring	0		
3772	11/135	422	1563	F	MIX	15.10.2004	spring	0	0	0
3773	11/135	423	1412	F	4YO	01.09.2004	spring	0		
3774	11/135	424	706	F	4YO	25.11.1998	spring	0		
3775	11/135	425	576	F	4YO	28.11.1998	spring	0		
3776	11/135	426	1723	F	MIX	01.09.2005	spring	0		
3777	11/135	427	1476	F	4YO	15.10.2004	spring	0		
3778	11/135	428	1784	F	3YO			0		
3779	11/135	429	1749	F	MIX	01.09.2005	spring	0		
3780	11/135	430	Y008	F	MIX	28.05.2003	spring	0		
3781	11/135	431	542							
3782	11/135	432	1013	F	3YO	27.01.2000	spring	0		
3783	11/135	433	1651	F	4YO	01.04.2005	spring	0	0	0
3784	11/135	434	1649	F	MIX	01.04.2005	spring	0	0	0
3785	11/135	435	1293	F	MIX	01.09.2003	spring	0	0	0
3786	11/135	436	1570	F	4YO	01.09.2004	spring	0	0	0
3787	11/135	437	1902	F	MIX	01.09.2005	spring	0		
3788	11/135	438	1003	F	3YO	28.01.2000	spring	0		
3789	11/135	439	1334	F	4YO	01.09.2003	spring	0	0	0
3790	11/135	440	1330	F	4YO	01.09.2003	spring	0	0	0
3791	11/135	441	496	F	4YO	18.09.1998	spring	0		
3792	11/135	442	1574	F	4YO	01.04.2005	spring	0	0	0
3793	11/135	443	509	F	MIX	21.09.1998	spring	0		
3794	11/135	444	X069	F	4YO	27.08.2002	spring	0		
3795	11/135	445	1282	F	4YO	01.09.2003	spring	0	0	0
3796	11/135	446	1566	F	MIX	15.10.2004	spring	0	0	0
3797	11/135	447	1630	F	4YO	01.04.2005	spring	0	0	0
3798	11/135	448	792	F	4YO	15.11.1998	spring	0		
3799	11/135	449	1021	F	MIX	26.01.2000	spring	0		
3800	11/135	450	1924	F	MIX	01.09.2005	spring	0		
3801	11/135	451	465	F	4YO	30.07.1998	spring	0		
3802	11/135	452	1762	F	4YO			0		
3803	11/135	453	1216	F	3YO	01.02.2003	spring	0	0	0
3804	11/135	454	1674	F	4YO	01.02.2006	spring	0	0	0
3805	11/135	455	1768	F	3YO			0		
3806	11/135	456	2168	F	3YO	01.08.2006	spring	1	0	0
3807	11/135	457	1221	F	4YO	06.02.2004	spring	0	0	0
3808	11/135	458	229	F	MIX			0		
3809	11/135	459	718	F	4YO	01.09.1999	spring	0		
3810	11/135	460	1521	F	MIX	15.10.2004	spring	0		
3811	11/135	461	1088	F	4YO	01.02.2002	spring	0		
3812	11/135	462	401	F	3YO	22.05.1998	spring	0		
3813	11/135	463	1673	F	MIX	01.02.2006	spring	0	0	0
3814	11/135	464	1260	F	4YO	01.09.2003	spring	0		
3815	11/135	465	1785	F	MIX			0		
3816	11/135	466	728	F	MIX	01.09.1999	spring	0		
3817	11/135	467	1871	F	MIX	01.09.2006	spring	0		
3818	11/135	468	756	F	3YO	01.02.1999	spring	0		
3819	11/135	469	462	F	4YO	30.07.1998	spring	0		
3820	11/135	470	1743	F	3YO	01.09.2005	spring	0		
3821	11/135	471	1166	F	MIX	01.09.2003	spring	0		
3822	11/135	472	1471	F	MIX	01.09.2004	spring	0		
3823	11/135	473	1516	F	MIX	15.10.2004	spring	0	0	0
3824	11/135	474	1247	F	4YO	01.09.2003	spring	0	0	0
3825	11/135	475	1275	F	4YO	01.09.2003	spring	0		
3826	11/135	476	616	F	4YO	01.09.1999	spring	0		
3827	11/135	477	873	F	4YO	01.09.1999	spring	0		
3828	11/135	478	1801	F	MIX			0	0	0
3829	11/135	479	1831	F	4YO	01.04.2006	spring	0	0	0
3830	11/135	480	1428	F	3YO	15.10.2004	spring	0		
3831	11/135	481	311	F	MIX	21.02.1998	spring	0		
3832	11/135	482	1457	F	MIX	01.09.2004	spring	0		
3833	11/135	483	765	F	4YO	15.03.1999	spring	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
3834	11/135	484	1434	F	4YO	15.10.2004	spring	0		
3835	11/135	485	1940	F	MIX	01.04.2006	spring	0		
3836	11/135	486	547	F	4YO	08.10.1998	spring	1	1	0
3837	11/135	487	X072	F	4YO	04.08.2002	spring	0		
3838	11/135	488	1779							
3839	11/135	489	1225	F	3YO	10.02.2004	spring	0	1	1
3840	11/135	490	747	F	3YO	01.02.1999	spring	0		
3841	11/135	491	1479	F	MIX	15.10.2004	spring	0		
3842	11/135	492	448	F	4YO	26.07.1998	spring	0		
3843	11/135	493	577	F	3YO	01.08.1998	spring	0		
3844	11/135	494	1947	F	MIX	01.09.2005	spring	0		
3845	11/135	495	1018	F	MIX	04.02.2001	spring	0		
3846	11/135	496	670	F	MIX	19.03.1999	spring	0		
3847	11/135	497	801	F	4YO	01.09.1999	spring	0		
3848	11/135	498	1911	F	MIX	01.09.2005	spring	0		
3849	11/135	499	320	F	3YO	26.02.1998	spring	0		
3850	11/135	500	1737	F	MIX	01.04.2006	spring	0		
3851	11/135	501	V254	F	MIX	02.09.2000	spring	0		
3852	11/135	502	291	F	MIX	09.02.1998	spring	0		
3853	11/135	503	1085	F	MIX	01.02.2002	spring	0		
3854	11/135	504	279	F	3YO	04.02.1998	spring	0		
3855	11/135	505	1928	F	4YO	01.04.2006	spring	0		
3856	11/135	506	1406	F	3YO	15.10.2004	spring	0		
3857	11/135	507	1528			15.10.2004				
3858	11/135	508	1680	F	MIX	01.02.2006	spring	0	0	0
3859	11/135	509	778	F	3YO	15.04.1999	spring	0		
3860	11/135	510	1373	F	MIX	01.09.2003	spring	0		
3861	11/135	511	W082	F	3YO	21.03.2001	spring	0		
3862	11/135	512	1257	F	MIX	01.09.2003	spring	0		
3863	11/135	513	583	F	4YO	26.11.1998	spring	0		
3864	11/135	514	1103	F	4YO	01.02.2002	spring	0		
3865	11/135	515	1142	F	4YO	06.02.2003	spring	0		
3866	11/135	516	1189	F	4YO	01.04.2003	spring	0		
3867	11/135	517	W065	F	4YO	01.09.2001	spring	0		
3868	11/135	518	684	F	4YO	26.02.1999	spring	0		
3869	11/135	519	1292	F	3YO	01.09.2003	spring	0	0	0
3870	11/135	520	X087	F	MIX	01.09.2002	spring	0		
3871	11/135	521	796	F	4YO	15.04.1999	spring	0		
3872	11/135	522	1891	F	MIX	01.09.2005	spring	0		
3873	11/135	523	1238	F	4YO	01.09.2003	spring	0	0	0
3874	11/135	524	1426	F	MIX	15.10.2004	spring	0		
3875	11/135	525	1605	F	4YO	01.04.2005	spring	0	0	1
3876	11/135	526	1937	F	MIX	01.09.2005	spring	0		
3877	11/135	527	1929	F	MIX	01.09.2005	spring	0		
3878	11/135	528	374	F	4YO	02.04.1998	spring	0		
3879	11/135	529	936	F	4YO	01.02.2000	spring	0		
3880	11/135	530	1351	F	4YO	01.09.2003	spring	0	0	0
3881	11/135	531	W078	F	4YO	19.03.2001	spring	0		
3882	11/135	532	276	F	MIX	02.02.1998	spring	0		
3883	11/135	533	1392	F	3YO	15.10.2004	spring	0		
3884	11/135	534	1204	F	3YO	09.02.2004	spring	0		
3885	11/135	535	1771	F	4YO			0		
3886	11/135	536	1664	F	MIX	01.04.2005	spring	0	0	0
3887	11/135	537	1360	F	4YO	01.09.2003	spring	0	0	0
3888	11/135	538	095	F	4YO	20.07.1996	spring	0		
3889	11/135	539	915	F	4YO	01.03.2001	spring	0		
3890	11/135	540	294	F	3YO	11.02.1998	spring	0		
3891	11/135	541	903	F	MIX	28.01.2000	spring	0		
3892	11/135	542	872	F	MIX	01.09.2000	spring	0		
3893	11/135	543	1943	F	MIX	01.09.2005	spring	0		
3894	11/135	544	641	F	4YO	01.09.1999	spring	0		
3895	11/135	545	902	F	3YO	25.01.2000	spring	0		
3896	11/135	546	1666	F	4YO	01.04.2005	spring	0	0	0
3897	11/135	547	Y010	F	MIX	28.05.2003	spring	0		
3898	11/135	548	1833	F	4YO	01.09.2005	spring	0	1	0
3899	11/135	549	314	F	4YO	23.02.1998	spring	0		
3900	11/135	550	708	F	3YO	24.02.1999	spring	0		
3901	11/135	551	504	F	4YO	20.09.1998	spring	0		
3902	11/135	552	896	F	4YO	01.09.1999	spring	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
3903	11/135	553	1281	F	MIX	01.09.2003	spring	0	0	0
3904	11/135	554	1571	F	MIX	15.10.2004	spring	0	0	0
3905	11/135	555	1165	F	4YO	01.03.2003	spring	0		
3906	11/135	556	321	F	MIX	27.02.1998	spring	0		
3907	11/135	557	1122	F	4YO	01.06.2003	spring	0		
3908	11/135	558	1527	F	MIX	15.10.2004	spring	0		
3909	11/135	559	W287			23.08.2001	spring			
3910	11/135	560	695	F	4YO	01.09.1998	spring	0		
3911	11/135	561	682	F	4	24.02.1999	spring	0		
3912	11/135	562	966	F	4YO	06.02.2001	spring	0		
3913	11/135	563	820	F	4YO	01.09.2000	spring	0		
3914	11/135	564	585	F	4YO	25.11.1998	spring	0		
3915	11/135	565	1086	F	4YO	01.02.2002	spring	0		
3916	11/135	566	853	F	4	27.12.1999	spring	0		
3917	11/135	567	356	F	3YO	28.03.1998	spring	0		
3918	11/135	568	1075	F	3YO	01.03.2002	spring	0		
3919	11/135	569	369	F	4YO	31.03.1998	spring	0		
3920	11/135	570	824	F	4YO	01.09.2000	spring	0		
3921	11/135	571	823	F	3YO	01.10.2000	spring	0		
3922	11/135	572	2000	F	4YO	01.09.2006	spring	0		
3923	11/135	573	1058	F	3YO	05.20.2001	spring	0		
3924	11/135	574	985	F	MIX	01.04.2001	spring	0		
3925	11/135	575	181	F	MIX			0		
3926	11/135	576	761	F	3YO	01.02.1999	spring	0		
3927	11/135	577	599	F	3YO	01.09.1998	spring	0		
3928	11/135	578	1056	F	MIX	07.02.2001	spring	0		
3929	11/135	579	423	F	MIX	26.05.1998	spring	0		
3930	11/135	580	712	F	4YO	27.11.1998	spring	0		
3931	11/135	581	1905	F	3YO	01.09.2005	spring	0		
3932	11/135	582	986	F	3YO	01.02.2001	spring	0		
3933	11/135	583	1359			01.09.2003	spring		0	0
3934	11/135	584	1347	F	MIX	01.09.2003	spring	0	0	0
3935	11/135	585	1370	F	3YO	01.09.2003	spring	0		
3936	11/135	586	1210	F	MIX	01.03.2003	spring	0		
3937	11/135	587	991	F	3YO	01.02.2001	spring	0		
3938	11/135	588	W283	F	4YO	24.08.2001	spring	0		
3939	11/135	589	W086	F	4YO	23.03.2001	spring	0		
3940	11/135	590	W191	F	3YO	02.06.2001	spring	0		
3941	11/135	591	A094	F	MIX	08.07.2005	spring	0		
3942	11/135	592	1128	F	3YO	01.06.2003	spring	0		
3943	11/135	593	1140	F	3YO	03.02.2003	spring	0		
3944	11/135	594	973	F	3YO	01.02.2001	spring	0		
3945	11/135	595	777	F	4YO	15.04.1999	spring	0		
3946	11/135	596	808	F	3YO	01.03.2000	spring	0		
3947	11/135	597	1017	F	3YO	30.01.2000	spring	0		
3948	11/135	598	601	F	3YO	15.08.1999	spring	0		
3949	11/135	599	1043	F	MIX	01.08.2001	spring	0		
3950	11/135	600	1186	F	MIX	01.03.2003	spring	0		
3951	11/135	601	W072	F	MIX	19.03.2001	spring	0		
3952	11/135	602	768	F	MIX	15.11.1998	spring	0		
3953	11/135	603	831	F	4YO	01.09.2000	spring	1	1	0
3954	11/135	604	935	F	4YO	01.03.2001	spring	0		
3955	11/135	605	782	F	3YO	15.07.1999	spring	1	1	1
3956	11/135	606	1035	F	3YO	01.08.2001	spring	0		
3957	11/135	607	625	F	4YO	01.09.1999	spring	0		
3958	11/135	608	1175	F	4YO	01.03.2003	spring	0		
3959	11/135	609	1034	F	MIX	05.08.2001	spring	0		
3960	11/135	610	1323	F	MIX	01.09.2003	spring	0		
3961	11/135	611	1840	F	MIX	01.09.2005	spring	0	1	0
3962	11/135	612	W069	F	MIX	17.03.2001	spring	0		
3963	11/135	613	1530	F	MIX	15.10.2004	spring	0	0	0
3964	11/135	614	1489	F	MIX	01.09.2004	spring	0	0	0
3965	11/135	615	763	F	4YO	01.09.1999	spring	0		
3966	11/135	616	958	F	3YO	14.02.2001	spring	0		
3967	11/135	617	1082	F	3YO	01.02.2002	spring	0		
3968	11/135	618	578	F	MIX	28.11.1998	spring	0		
3969	11/135	619	1541	F	MIX	15.10.2004	spring	1	1	0
3970	11/135	620	289	F	4YO	08.02.1998	spring	0		
3971	11/135	621	1083	F	4YO	01.02.2002	spring	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
3972	11/135	622	532	F	4YO	26.09.1998	spring	0		
3973	11/135	623	1215	F	4YO	03.02.2004	spring	0	0	0
3974	11/135	624	1201	F	MIX	09.02.2004	spring	0		
3975	11/135	625	1882	F	3YO	01.03.2006	spring	0		
3976	11/135	626	463	F	4YO	30.07.1998	spring	0		
3977	11/135	627	805	F	MIX	01.09.1999	spring	0		
3978	11/135	628	1650	F	MIX	01.04.2005	spring	1	1	0
3979	11/135	629	998	F	4YO	26.01.2000	spring	0		
3980	11/135	630	1886	F	MIX	15.04.2006	spring	0		
3981	11/135	631	W074	F	4YO			0		
3982	11/135	632	221	F	3YO	09.09.1997	spring	0		
3983	11/135	633	1105	F	4YO	01.02.2002	spring	0		
3984	11/135	634	687	F	4YO	27.02.1999	spring	0		
3985	11/135	635	2495	F	3YO	01.03.2007	spring	0		
3986	11/135	636	1183	F	3YO	01.09.2003	spring	0		
3987	11/135	637	674	F	MIX	19.03.1999	spring	1		
3988	11/135	638	899	F	MIX	01.09.1999	spring	0		
3989	11/135	639	1008	F	4YO	06.02.2000	spring	0		
3990	11/135	640	1817	F	MIX			0	0	0
3991	11/135	641	W164	F	MIX	15.05.2001	spring	0		
3992	11/135	642	445							
3993	11/135	643	826	F	3YO	01.10.2000	spring	1	1	0
3994	11/135	644	1663	F	MIX	01.04.2005	spring	0	0	0
3995	11/135	645	1880	F	MIX	01.03.2006	spring	0		
3996	11/135	646	1394	F	MIX	15.10.2004	spring	0		
3997	11/135	647	W056	F	3YO	20.02.2001	spring	0		
3998	11/135	648	1040							
3999	11/135	649	1648	F	MIX	01.04.2005	spring	0	0	0
4000	11/135	650	1430	F	3YO	15.10.2004	spring	0		
4001	11/135	651	1756	F	MIX			0		
4002	11/135	652	1793	F	4YO			0		
4003	11/135	653	714	F	MIX	12.04.1999	spring	0		
4004	11/135	654	1747	F	4YO	01.09.2005	spring	0		
4005	11/135	655	1751	F	MIX			0		
4006	11/135	656	1061	F	3YO	01.02.2001	spring	0		
4007	11/135	657	1783	F	MIX			0		
4008	11/135	658	1869	F	MIX	01.03.2006	spring	0		
4009	11/135	659	802	F	MIX	15.02.1999	spring	0		
4010	11/135	660	1240	F	3YO	01.09.2003	spring	0	0	0
4011	11/135	661	1449	F	MIX	01.09.2004	spring	0		
4012	11/135	662	1879	F	3YO	01.09.2005	spring	0		
4013	11/135	663	1399	F	MIX	15.10.2004	spring	0		
4014	11/135	664	1187	F	MIX	01.03.2003	spring	0		
4015	11/135	665	W158	F	MIX	13.05.2001	spring	0		
4016	11/135	666	913	F	4YO	01.04.2001	spring	0		
4017	11/135	667	1436	F	4YO	01.09.2004	spring	0		
4018	11/135	668	A122	F	MIX	29.07.2005	spring	0		
4019	11/135	669	709	F	4YO	26.11.1998	spring	0		
4020	11/135	670	1887	F	MIX	01.02.2006	spring	0		
4021	11/135	671	X077	F	4YO	15.08.2002	spring	0		
4022	11/135	672	837	F	MIX	01.09.2000	spring	0		
4023	11/135	673	835	F	MIX	01.09.2000	spring	0		
4024	11/135	674	Y011	F	4YO	07.06.2003	spring	0		
4025	11/135	675	838	F	3YO	01.10.2000	spring	0		
4026	11/135	676	W139	F	MIX	06.05.2001	spring	0		
4027	11/135	677	446	F	3YO	25.07.1998	spring	0		
4028	11/135	678	894	F	4YO	01.09.2000	spring	0		
4029	11/135	679	846	F	4YO	01.09.2000	spring	0		
4030	11/135	680	916	F	MIX	01.04.2001	spring	0		
4031	11/135	681	1217	F	MIX	10.02.2004	spring	0	0	0
4032	11/135	682	Y06	F	MIX	30.03.2003	spring	0		
4033	11/135	683	923	F	4YO	01.04.2001	spring	0		
4034	11/135	684	1343	F	MIX	01.09.2003	spring	1	0	0
4035	11/135	685	1067	F	3YO	02.02.2001	spring	0		
4036	11/135	686	1790	F	3YO			0		
4037	11/135	687	1647	F	MIX	01.04.2005	spring	0	0	0
4038	11/135	688	988	F	4YO	01.03.2001	spring	0		
4039	11/135	689	1087	F	4YO	01.08.2001	spring	0		
4040	11/135	690	1508	F	MIX	15.10.2004	spring	0	1	1

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
4041	11/135	691	1906	F	4YO	01.09.2005	spring	0		
4042	11/135	692	1298	F	3YO	01.09.2003	spring	0	0	0
4043	11/135	693	1912	F	MIX	01.03.2006	spring	0		
4044	11/135	694	X079	F	MIX	28.08.2002	spring	0		
4045	11/135	695	1748	F		01.09.2005	spring	0		
4046	11/135	696	1310	F	4YO	01.09.2003	spring	0		
4047	11/135	697	1461	F	MIX	15.10.2004	spring	0		
4048	11/135	698	668	F	3YO	27.11.1998	spring	0		
4049	11/135	699	1920	F	MIX	01.03.2006	spring	0		
4050	11/135	700	1258	F	3YO	01.09.2003	spring	0		
4051	11/135	701	1398	F	4YO	15.10.2004	spring	0		
4052	11/135	702	1261	F	3YO	01.09.2003	spring	0		
4053	11/135	703	713	F	4YO	25.02.1999	spring	0		
4054	11/135	704	1787	F	MIX			0		
4055	11/135	705	1712	F	MIX	01.09.2006	spring	0		
4056	11/135	706	1171	F	MIX	01.03.2003	spring	0		
4057	11/135	707	1967	F	MIX	01.09.2006	spring	0		
4058	11/135	708	1586	F	MIX	01.04.2005	spring	0	0	0
4059	11/135	709	825	F	4YO	01.09.2000	spring	0		
4060	11/135	710	864	F	4YO	01.09.2000	spring	0		
4061	11/135	711	1497	F	3YO	01.09.2004	spring	0	0	0
4062	11/135	712	925	F	3YO	01.02.2000	spring	0		
4063	11/135	713	633	F	4YO	01.09.1999	spring	0		
4064	11/135	714	740	F	3YO	01.02.1999	spring	0		
4065	11/135	715	1015	F	3YO	26.01.2000	spring	0		
4066	11/135	716	727	F	3YO	15.10.1999	spring	0		
4067	11/135	717	1167	F	4YO	01.04.2003	spring	0		
4068	11/135	718	1834	F	MIX	15.04.2006	spring	0	0	0
4069	11/135	719	1611	F	4YO	01.04.2005	spring	1	1	1
4070	11/135	720	1827	F	4YO	01.09.2005	spring	0	0	0
4071	11/135	721	827	F	MIX	01.09.2000	spring	0		
4072	11/135	722	1209	F	MIX	03.02.2004	spring	0		
4073	11/135	723	1072	F	MIX	09.02.2001	spring	0		
4074	11/135	724	1773	F	4YO			0		
4075	11/135	725	1317	F	4YO	01.09.2003	spring	0		
4076	11/135	726	863	F	MIX	05.01.2000	spring	0		
4077	11/135	727	1484	F	MIX	01.09.2004	spring	0	0	0
4078	11/135	728	1679	F	MIX	01.02.2006	spring	0	0	0
4079	11/135	729	1903	F	MIX	01.09.2005	spring	0		
4080	11/135	730	1841	F	4YO	01.09.2005	spring	0		
4081	11/135	731	1342	F	4YO	01.09.2003	spring	0	0	0
4082	11/135	732	1231	F	3YO	01.09.2003	spring	0	0	0
4083	11/135	733	937	F	MIX	01.04.2001	spring	0		
4084	11/135	734	2039	F	3YO	01.04.2006	spring	0		
4085	11/135	735	817	F	3YO	01.10.2000	spring	0		
4086	11/135	736	1564	F	4YO		spring	1	1	1
4087	11/135	737	1418	F	MIX	15.10.2004	spring	0		
4088	11/135	738	1020	F	4YO	31.01.2000	spring	0		
4089	11/135	739	1440	F	4YO	01.09.2004	spring	0		
4090	11/135	740	333	F	3YO	19.03.1998	spring	0		
4091	11/135	741	A127	F	MIX	30.07.2005	spring	0		
4092	11/135	742	1191	F	3YO	07.02.2001	spring	0		
4093	11/135	743	W185	F	4YO	24.05.2001	spring	0		
4094	11/135	744	1090	F	3YO	01.02.2002	spring	0		
4095	11/135	745	2210	F	MIX	01.03.2006	spring	0		
4096	11/135	746	1870	F	MIX	01.09.2005	spring	0		
4097	11/135	747	1390	F	MIX	15.10.2004	spring	0		
4098	11/135	748	1439	F	MIX	01.09.2004	spring	0		
4099	11/135	749	1272	F	4YO	01.09.2003	spring	0		
4100	11/135	750	W145			10.05.2001	spring	0		
4101	11/135	751	1864	F	MIX	01.09.2005	spring	1	1	1
4102	11/135	752	1764	F	MIX			0		
4103	11/135	753	605	F	4YO	01.09.1999	spring	0		
4104	11/135	754	1311	F	4YO	01.09.2003	spring	0		
4105	11/135	755	2363	F	3YO	01.02.2007	spring	0		
4106	11/135	756	1046	F	MIX	01.08.2001	spring	0		
4107	11/135	757	987	F	MIX	01.09.2000	spring	0		
4108	11/135	758	1603	F	3YO	01.04.2005	spring	0	0	0
4109	11/135	759	Y012	F	MIX	30.05.2003	spring	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
4110	11/135	760	1402	F	MIX	01.09.2004	spring	0		
4111	11/135	761	1900	F	MIX	01.09.2005	spring	0		
4112	11/135	762	1578	F	4YO	01.04.2005	spring	0	0	0
4113	11/135	763	1420	F	MIX	15.10.2004	spring	0		
4114	11/135	764	1487	F	MIX	15.10.2004	spring	0	0	0
4115	11/135	765	1288	F	MIX	01.09.2003	spring	1	1	1
4116	11/135	766	057	F	4YO	19.09.1995	spring	0		
4117	11/135	767	1507	F	4YO	01.09.2004	spring	1	1	0
4118	11/135	768	1467	F	MIX	01.09.2004	spring	0		
4119	11/135	769	1498	F	MIX	01.09.2004	spring	0	0	0
4120	11/135	770	1637	F	MIX	01.04.2005	spring	1	1	1
4121	11/135	771	1385	F	MIX	15.10.2004	spring	0		
4122	11/135	772	1847	F	MIX	01.03.2006	spring	0		
4123	11/135	773	1446	F	3YO	01.09.2004	spring	0		
4124	11/135	774	772	F	MIX	01.09.1999	spring	0		
4125	11/135	775	1739	F		01.09.2005	spring	0		
4126	11/135	776	1583	F	3YO	01.09.2005	spring	0	0	0
4127	11/135	777	1112	F	MIX	01.02.2002	spring	0		
4128	11/135	778	914	F	MIX	01.04.2001	spring	0		
4129	11/135	779	A158	F	MIX	27.08.2005	spring	1	1	1
4130	11/135	780	1966	F	MIX	01.09.2006	spring	0		
4131	11/135	781	1081	F		01.02.2002	spring	0		
4132	11/135	782	A152	F	3YO	01.08.2005	spring	0		
4133	11/135	783	440	F	4YO	23.07.1998	spring	0		
4134	11/135	784	1121	F	3YO	01.06.2003	spring	0		
4135	11/135	785	1753	F	4YO		0			
4136	11/135	786	1108	F	MIX	01.02.2002	spring	0		
4137	11/135	787	1212	F	4YO	04.02.2004	spring	0	0	0
4138	11/135	788	W148	F	MIX	11.05.2001	spring	0		
4139	11/135	789	1203	F	MIX	08.02.2004	spring	0		
4140	11/135	790	471	F	4YO	01.08.1998	spring	0		
4141	11/135	791	1661	F	MIX	01.04.2005	spring	0	0	0
4142	11/135	792	1427	F	MIX	01.09.2004	spring	0		
4143	11/135	793	1499	F	MIX	01.09.2004	spring	3	1	0
4144	11/135	794	542	F	MIX	03.10.1998	spring	0		
4145	11/135	795	1397	F	MIX	15.10.2004	spring	0		
4146	11/135	796	1291	F	4YO	01.09.2003	spring	1	1	1
4147	11/135	797	859	F	MIX	01.09.2000	spring	0		
4148	11/135	798	1626	F	MIX	01.04.2005	spring	0	0	0
4149	11/135	799	828	F	4YO	01.09.2000	spring	0		
4150	11/135	800	1205	F	4YO	01.02.2004	spring	0		
4151	11/135	801	1422	F	3YO	15.10.2004	spring	0		
4152	11/135	802	689	F	MIX	27.02.1999	spring	0		
4153	11/135	803	688	F	3YO	12.04.1999	spring	0		
4154	11/135	804	1607	F	MIX	01.04.2005	spring	0	0	0
4155	11/135	805	502	F	MIX	19.09.1998	spring	0		
4156	11/135	806	1213	F	4YO	01.02.2003	spring	1	0	0
4157	11/135	807	180	F	MIX		0			
4158	11/135	808	1671	F	MIX	01.02.2006	spring	0	0	0
4159	11/135	809	1012	F	MIX	28.01.2000	spring	0		
4160	11/135	810	663	F	4YO	23.02.1999	spring	0		
4161	11/135	811	1464	F	MIX	01.09.2004	spring	0		
4162	11/135	812	1581	F	MIX	01.04.2005	spring	0	0	0
4163	11/135	813	1460	F	4YO	01.09.2004	spring	0		
4164	11/135	814	600	F	4YO	15.10.1999	spring	0		
4165	11/135	815	1501	F	MIX	15.10.2004	spring	0	0	0
4166	11/135	816	1274	F	4YO	01.09.2003	spring	0		
4167	11/135	817	1091	F	MIX	01.02.2002	spring	0		
4168	11/135	818	1413	F	4YO	15.10.2004	spring	0		
4169	11/135	819	A001	F	MIX	01.09.2005	spring	0		
4170	11/135	820	A120	F	MIX	28.07.2005	spring	1	1	1
4171	11/135	821	393	F	MIX	18.05.1998	spring	0		
4172	11/135	822	1547	F	4YO	01.09.2004	spring	0	1	0
4173	11/135	823	1113	F	MIX	01.02.2002	spring	0		
4174	11/135	824	1141	F	MIX	03.02.2003	spring	0		
4175	11/135	825	1628	F	MIX	01.04.2005	spring	1	1	0
4176	11/135	826	1307	F	3YO	01.09.2003	spring	0		
4177	11/135	827	640	F	MIX	01.09.1999	spring	1	1	1
4178	11/135	828	2123	F	MIX	01.09.2005	spring	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
4179	11/135	829	1791	F	MIX			0		
4180	11/135	830	852	F	MIX	01.09.2000	spring	0		
4181	11/135	831	1589	F	MIX	01.04.2005	spring	0	0	0
4182	11/135	832	1193	F	4YO	04.02.2004	spring	0		
4183	11/135	833	1470	F	MIX	01.09.2004	spring	0		
4184	11/135	834	036	F	3YO	25.05.1995	spring	0		
4185	11/135	835	1550	F	MIX	15.10.2004	spring	0	0	0
4186	11/135	836	1678	F	4YO	01.02.2006	spring	0	0	0
4187	11/135	837	947	F	4YO	01.03.2001	spring	0		
4188	11/135	838	1395	F	MIX	15.10.2004	spring	0		
4189	11/135	839	861	F	MIX	01.09.1999	spring	0		
4190	11/135	840	1366	F	MIX	01.09.2003	spring	0		
4191	11/135	841	1030	F	4YO	01.08.2001	spring	0		
4192	11/135	842	317	F	MIX	24.02.1998	spring	0		
4193	11/135	843	1529	F	MIX	15.10.2004	spring	0		
4194	11/135	844	W115	F	4YO	29.03.2001	spring	0		
4195	11/135	845	1006	F	4YO	08.02.2000	spring	0		
4196	11/135	846	A147	F	MIX	09.08.2005	spring	0		
4197	11/135	847	1913	F	4YO	01.09.2006	spring	0		
4198	11/135	848	1271	F	4YO	01.09.2003	spring	0		
4199	11/135	849	1538	F	4YO	01.09.2004	spring	0	0	0
4200	11/135	850	1246	F	MIX	01.09.2003	spring	1	1	1
4201	11/135	851	1004	F	MIX	28.01.2000	spring	0		
4202	11/135	852	941	F	4YO	30.01.2000	spring	0		
4203	11/135	853	1232	F	4YO	01.09.2003	spring	0	0	0
4204	11/135	854	1451	F	4YO	15.10.2004	spring	0		
4205	11/135	855	602	F	4YO	01.09.2000	spring	0		
4206	11/135	856	876	F	3YO	01.03.2000	spring	0		
4207	11/135	857	2328	F	MIX	01.09.2007	spring	0		
4208	11/135	858	1109	F	4YO	01.02.2002	spring	0		
4209	11/135	859	1102	F	4YO	01.02.2002	spring	0		
4210	11/135	860	163	F	MIX	01.04.2005	spring	0		
4211	11/135	861	982	F	MIX	01.04.2001	spring	0		
4212	11/135	862	1629	F	MIX	01.04.2005	spring	0	0	0
4213	11/135	863	839	F	MIX	01.09.2000	spring	0		
4214	11/135	864	1873	F	4YO	01.09.2005	spring	0		
4215	11/135	865	617	F	3YO	20.10.1999	spring	0		
4216	11/135	866	574	F	MIX	26.11.1998	spring	0		
4217	11/135	867	965	F	4YO	29.01.2000	spring	0		
4218	11/135	868	213	F	4YO	03.09.1997	spring	0		
4219	11/135	869	746	F	MIX	15.01.2000	spring	0		
4220	11/135	870	2220	F	MIX	01.09.2003	spring	0		
4221	11/135	871	1865	F	MIX	01.09.2005	spring	0		
4222	11/135	872	1208	F	MIX	07.02.2004	spring	0		
4223	11/135	873	886	F	MIX	01.09.1999	spring	0		
4224	11/135	874	1267	F	3YO	01.09.2003	spring	0		
4225	11/135	875	612	F	3YO	15.11.1999	spring	0		
4226	11/135	876	1096	F	4YO	01.02.2002	spring	0		
4227	11/135	877	1491	F	MIX	01.09.2004	spring	0	0	0
4228	11/135	878	1188	F	MIX	06.04.2004	spring	0		
4229	11/135	879	1022	F	4YO	06.02.2000	spring	0		
4230	11/135	880	1234	F		01.09.2003	spring		0	0
4231	11/135	881	953	F	MIX	01.04.2001	spring	0		
4232	11/135	882	639	F	4YO	01.09.1999	spring	0		
4233	11/135	883	1388	F	4YO	01.09.2004	spring	0		
4234	11/135	884	1494	F	4YO	01.09.2004	spring	0	1	0
4235	11/135	885	1917	F	MIX	02.02.2007	spring	0		
4236	11/135	886	575	F	4YO	26.11.1998	spring	0		
4237	11/135	887	W184	F	4YO	23.05.2001	spring	0		
4238	11/135	888	1454	F	MIX	01.09.2004	spring	0		
4239	11/135	889	1445	F	3YO	15.10.2004	spring	1	1	1
4240	11/135	890	1627	F	4YO	01.04.2005	spring	0	1	0
4241	11/135	891	871	F	MIX	01.09.2000	spring	0		
4242	11/135	892	1465	F	MIX	01.09.2004	spring	0		
4243	11/135	893	1097	F	MIX	01.02.2002	spring	0		
4244	11/135	894	1361	F	4YO	01.09.2003	spring	0		
4245	11/135	895	1809	F	4YO			0	0	0
4246	11/135	896	851	F	4YO	01.09.2000	spring	0		
4247	11/135	897	1565	F	MIX	15.10.2004	spring	0	0	0

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
4248	11/135	898	1503	F	4YO	01.09.2004	spring	0	0	0
4249	11/135	899	1039	F	4YO	01.08.2001	spring	0		
4250	11/135	900	1376	F	4YO	01.09.2003	spring	0		
4251	11/135	901	812	F	3YO	05.01.2000	spring	0		
4252	11/135	902	1556	F	MIX	15.10.2004	spring	0	0	0
4253	11/135	903	1032	F	MIX	03.08.2001	spring	0		
4254	11/135	904	1304	F	4YO	01.09.2003	spring	0		
4255	11/135	905	1624	F	4YO	01.04.2005	spring	0	0	0
4256	11/135	906	1539	F	MIX	15.10.2004	spring	0	0	0
4257	11/135	907	1526	F	MIX	15.10.2004	spring	0		
4258	11/135	908	1576	F	MIX	01.09.2005	spring	0	0	0
4259	11/135	909	1875	F	3YO	15.04.2006	spring	0		
4260	11/135	910	1892	F	3YO	01.09.2005	spring	0		
4261	11/135	911	715	F	4YO	24.02.1999	spring	0		
4262	11/135	912	1358	F	3YO	01.09.2003	spring	0	0	0
4263	11/135	913	1172	F	MIX	01.03.2003	spring	0		
4264	11/135	914	112	F	4YO	29.01.1997	spring	0		
4265	11/135	915	377	F	MIX	03.04.1998	spring	0		
4266	11/135	916	506	F	MIX	20.09.1998	spring	0		
4267	11/135	917	783	F	MIX	01.09.1999	spring	0		
4268	11/135	918	149							
4269	11/135	919	1462	F	4YO	01.09.2004	spring	0		
4270	11/135	920	W101	F	MIX	25.03.2001	spring	0		
4271	11/135	921	1522	F	MIX	15.10.2004	spring	0		
4272	11/135	922	1129	F	MIX	01.06.2003	spring	0		
4273	11/135	923	1130	F	MIX	01.06.2003	spring	0		
4274	11/135	924	710	F	4YO	29.11.1998	spring	0		
4275	11/135	925	252	F	4YO	27.11.1997	spring	0		
4276	11/135	926	1432	F	MIX	01.09.2004	spring	0		
4277	11/135	927	1797	F	MIX			0		
4278	11/135	928	1767	F	MIX			0		
4279	11/135	929	810	F	MIX	01.09.2000	spring	0		
4280	11/135	930	1276	F	MIX	01.09.2003	spring	0		
4281	11/135	931	X061	F	4YO	01.08.2002	spring	0		
4282	11/135	932	1509	F	MIX	01.09.2004	spring	0	0	0
4283	11/135	933	1632	F	MIX	01.05.2005	spring	0	1	1
4284	11/135	934	888	F	3YO	01.03.2000	spring	0		
4285	11/135	935	340	F	MIX	23.03.1998	spring	0		
4286	11/135	936	931	F	MIX	29.01.2000	spring	0		
4287	11/135	937	787	F	4YO	15.03.1999	spring	0		
4288	11/135	938	1908	F	4YO	01.10.2005	spring	0		
4289	11/135	939	773	F	4YO	15.04.1999	spring	0		
4290	11/135	940	1486	F	MIX	15.10.2004	spring	0	0	1
4291	11/135	941	703	F	4YO	28.11.1998	spring	0		
4292	11/135	942	X107	F	4YO	29.11.2002	spring	0		
4293	11/135	943	1488	F	4YO	01.09.2004	spring	0	1	0
4294	11/135	944	1302	F	MIX	01.09.2003	spring	0		
4295	11/135	945	1176	F	4YO	01.04.2003	spring	0		
4296	11/135	946	1031	F	4YO	02.08.2001	spring	0		
4297	11/135	947	1157	F	4YO	07.02.2003	spring	0		
4298	11/135	948	1777	F	4YO			0		
4299	11/135	949	1874	F	MIX	01.09.2005	spring	1	1	1
4300	11/135	950	887	F	4YO	01.09.2000	spring	0		
4301	11/135	951	452	F	4YO	26.07.1998	spring	0		
4302	11/135	952	1300	F	4YO	01.09.2003	spring	0	0	0
4303	11/135	953	1168	F	4YO	01.04.2003	spring	0		
4304	11/135	954	1025	F	MIX	01.08.2001	spring	0		
4305	11/135	955	612F2	F	MIX	01.09.2003	spring	0		
4306	11/135	956	1907	F	MIX	01.09.2005	spring	0		
4307	11/135	957	1106	F	MIX	01.02.2002	spring	0		
4308	11/135	958	1119	F	3YO	01.06.2003	spring	0		
4309	11/135	959	652	F	4YO	01.09.1999	spring	0		
4310	11/135	960	1353	F	4YO	01.09.2003	spring	0	0	0
4311	11/135	961	1478	F	MIX	15.10.2004	spring	0		
4312	11/135	962	1318	F	3YO	01.09.2003	spring	0		
4313	11/135	963	A154	F	4YO	28.06.2005	spring	0		
4314	11/135	964	1314	F	MIX	01.09.2003	spring	0		
4315	11/135	965	1094	F	3YO	01.02.2002	spring	0		
4316	11/135	966	614	F	MIX	15.09.1999	spring	0		



FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
4317	11/135	967	582	F	4YO	30.11.1998	spring	0		
4318	11/135	968	1558	F	MIX	15.10.2004	spring	0	0	0
4319	11/135	969	1814	F	MIX	01.03.2006	spring	0	0	0
4320	11/135	970	144	F	MIX	11.04.1997	spring	0		
4321	11/135	971	1818	F	4YO	01.09.2005	spring	0	0	0
4322	11/135	972	195	F	MIX	13.08.1997	spring	0		
4323	11/135	973	1553	F	4YO	01.09.2004	spring	0	0	0
4324	11/135	974	994	F	MIX	01.04.2001	spring	0		
4325	11/135	975	1710	F	MIX	01.04.2006	spring	0		
4326	11/135	976	064	F	4YO	16.05.1996	spring	0		
4327	11/135	977	1919	F	MIX	01.09.2005	autumn	0		
4328	11/135	978	1584	F	MIX	01.04.2005	spring	0	0	0
4329	11/135	979	394	F	4YO	18.05.1998	spring	0		
4330	11/135	980	417	F	4YO	24.05.1998	spring	1	1	0
4331	11/135	981	178	F	3YO			0		
4332	11/135	982	720	F	3YO	19.03.1999	spring	0		
4333	11/135	983	1124	F	MIX	01.06.2003	spring	0		
4334	11/135	984	1111	F	4YO	01.02.2002	spring	0		
4335	11/135	985	402	F	MIX	22.05.1998	spring	0		
4336	11/135	986	954	F	MIX	29.01.2000	spring	0		
4337	11/135	987	X070	F	MIX	07.08.2002	spring	0		
4338	11/135	988	722	F	MIX	01.09.1999	spring	0		
4339	11/135	989	1348	F	4YO	01.09.2003	spring	0	0	0
4340	11/135	990	W100							
4341	11/135	991	654	F	MIX	25.02.1999	spring	0		
4342	11/135	992	1419	F	MIX	01.09.2004	spring	0		
4343	11/135	993	1884	F	MIX	01.04.2006	spring	0		
4344	11/135	994	2121	F	3YO	01.04.2006	spring	0		
4345	11/135	995	1306	F	4YO	01.09.2003	spring	0		
4346	11/135	996	1099	F	4YO			0		
4347	11/135	997	635	F	4YO	01.09.1999	spring	0		
4348	11/135	998	1333	F	MIX	01.09.2003	spring	0	0	0
4349	11/135	999	1766	F	MIX			0		
4350	11/135	1000	X065	F	4YO	02.09.2002	spring	0		
4351	11/135	1001	1515	F	MIX	15.10.2004	spring	0	0	0
4352	11/135	1002	1848	F	MIX	01.04.2006	spring	0		
4353	11/135	1003	699	F	MIX	25.02.1999	spring	0		
4354	11/135	1004	206	F	MIX	23.08.1997	spring	0		
4355	11/135	1005	984	F	4YO	01.03.2001	spring	0		
4356	11/135	1006	W002	F	MIX	01.01.2001	spring	0		
4357	11/135	1007	1568	F	MIX	15.10.2004	spring	0	1	0
4358	11/135	1008	895	F	4YO	01.09.1999	spring	0		
4359	11/135	1009	623	F	4YO	01.09.1999	spring	0		
4360	11/135	1010	1041	F	4YO	01.08.2001	spring	0		
4361	11/135	1011	1387	F	MIX	15.10.2004	spring	0		
4362	11/135	1012	1520	F	MIX	15.10.2004	spring	0	0	0
4363	11/135	1013	1459	F	4YO	15.10.2004	spring	0		
4364	11/135	1014	976	F	4YO	31.01.2000	spring	0		
4365	11/135	1015	974	F	4YO	01.04.2001	spring	0		
4366	11/135	1016	1500	F	MIX	01.09.2004	spring	0	0	0
4367	11/135	1017	1447	F	4YO	01.09.2004	spring	0		
4368	11/135	1018	W195	F	MIX	08.06.2001	spring	0		
4369	11/135	1019	1718	F	4YO	01.04.2006	spring	0		
4370	11/135	1020	1745	F	MIX	01.04.2006	spring	0		
4371	11/135	1021	1139	F	4YO	01.02.2003	spring	0		
4372	11/135	1022	669	F	MIX	25.02.1999	spring	0		
4373	11/135	1023	1496	F	3YO	01.09.2004	spring	0	0	0
4374	11/135	1024	881	F	MIX	01.09.2000	spring	0		
4375	11/135	1025	1289	F	3YO	01.09.2003	spring	0	0	0
4376	11/135	1026	996	F	MIX	27.01.2000	spring	0		
4377	11/135	1027	700	F	4YO	28.02.1999	spring	0		
4378	11/135	1028	313	F	4YO	23.02.1998	spring	0		
4379	11/135	1029	W045	F	MIX	09.02.2001	spring	0		
4380	11/135	1030	1223	F	MIX	31.01.2004	spring	0	0	0
4381	11/135	1031	1639	F	MIX	01.04.2005	spring	0	0	0
4382	11/135	1032	A155	F	MIX	18.08.2005	spring	0		
4383	11/135	1033	W043	F	4YO	07.02.2001	spring	0		
4384	11/135	1034	1066	F	MIX	01.02.2000	spring	0		
4385	11/135	1035	1362			01.09.2003	spring			

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
4386	11/135	1036	312	F	4YO	22.02.1998	spring	0		
4387	11/135	1037	1722	F	MIX	01.04.2006	spring	0		
4388	11/135	1038	335	F	4YO	20.03.1998	spring	0		
4389	11/135	1039	648	F	MIX	01.09.1999	spring	0		
4390	11/135	1040	1164	F	MIX	01.03.2003	spring	0		
4391	11/135	1041	1580	F	MIX	01.09.2005	spring	0	0	0
4392	11/135	1042	767	F	4YO			0		
4393	11/135	1043	1572	F	MIX	15.10.2004	spring	0	0	0
4394	11/135	1044	759	F		15.02.1999	spring			
4395	11/135	1045	1159	F	MIX	07.02.2003	spring	0		
4396	11/135	1046	135	F	MIX	08.04.1997	spring	0		
4397	11/135	1047	742	F	4YO	15.04.1999	spring	0		
4398	11/135	1048	1458	F	MIX	15.10.2004	spring	0		
4399	11/135	1049	1147	F	MIX	05.02.2003	spring	0		
4400	11/135	1050	1759	F	4YO			0		
4401	11/135	1051	W154	F	4YO	12.05.2001	spring	0		
4402	11/135	1052	200	F	4YO	14.08.1997	spring	0		
4403	11/135	1053	942	F	MIX	01.04.2001	spring	0		
4404	11/135	1054	1645	F	MIX	01.04.2005	spring	0	0	0
4405	11/135	1055	1826	F	MIX	01.09.2005	spring	0	0	0
4406	11/135	1056	W179	F	4YO	21.05.2001	spring	0		
4407	11/135	1057	1410	F	MIX	01.09.2004	spring	0		
4408	11/135	1058	1881	F	MIX	01.09.2005	spring	0		
4409	11/135	1059	529	F	MIX	26.09.1998	spring	0		
4410	11/135	1060	1386	F	4YO	15.10.2004	spring	0		
4411	11/135	1061	1546	F	3YO	15.10.2004	spring	1	1	1
4412	11/135	1062	628	F	3YO	01.09.1999	spring	0		
4413	11/135	1063	1721	F	MIX	01.09.2005	spring	0		
4414	11/135	1064	515	F	MIX	22.09.1998	spring	0		
4415	11/135	1065	760	F	4YO	15.09.1999	spring	0		
4416	11/135	1066	W177	F	MIX	20.05.2001	spring	0		
4417	11/135	1067	608	F		01.09.1999	spring			
4418	11/135	1068	1450	F	MIX	15.10.2004	spring	0		
4419	11/135	1069	A098	F	3YO	14.07.2005	spring	0		
4420	11/135	1070	661	F	3YO	24.02.1999	spring	0		
4421	11/135	1071	798	F	MIX	15.03.2000	spring	0		
4422	11/135	1072	717	F	4YO	23.02.1999	spring	0		
4423	11/135	1073	890	F	MIX	01.09.2000	spring	0		
4424	11/135	1074	486	F	4YO	09.08.1998	spring	0		
4425	11/135	1075	1776	F	MIX			0		
4426	11/135	1076	A074	F	MIX	13.03.2005	spring	0		
4427	11/135	1077	1849	F	MIX	01.09.2005	spring	1	1	1
4428	11/135	1078	653	F	4YO	30.11.1998	spring	0		
4429	11/135	1079	1819	F	MIX	01.04.2006	spring	0	0	0
4430	11/135	1080	W281	F	4YO	08.09.2001	spring	0		
4431	11/135	1081	1711	F	3YO	01.04.2006	spring	0		
4432	11/135	1082	989	F	MIX	01.04.2001	spring	0		
4433	11/135	1083	1107	F	MIX	01.02.2002	spring	0		
4434	11/135	1084	780	F	4YO	01.09.1999	spring	0		
4435	11/135	1085	2199	F	MIX	01.09.2006	spring	0		
4436	11/135	1086	1555	F	MIX	15.10.2004	spring	0	0	0
4437	11/135	1087	A079	F	MIX	01.05.2005	spring	0		
4438	11/135	1088	A078	F	3YO	15.03.2005	spring	0		
4439	11/135	1089	1545	F	4YO	01.09.2004	spring	0	0	0
4440	11/135	1090	1294	F	4YO	01.09.2003	spring	0	0	0
4441	11/135	1091	1404	F	MIX	01.09.2004	spring	0		
4442	11/135	1092	963	F	4YO	01.03.2001	spring	0		
4443	11/135	1093	W159	F	MIX	13.05.2001	spring	0		
4444	11/135	1094	869	F	3YO	01.12.1999	spring	0		
4445	11/135	1095	781	F	4YO	15.07.1999	spring	0		
4446	11/135	1096	W144	F	4YO	09.05.2001	spring	0		
4447	11/135	1097	2144	F	4YO	01.04.2006	spring	0		
4448	11/135	1098	675	F	4YO	27.02.1999	spring	0		
4449	11/135	1099	990	F	4YO	26.01.2000	spring	0		
4450	11/135	1100	1256	F	4YO	01.09.2003	spring	0	1	0
4451	11/135	1101	909	F	4YO	01.03.2001	spring	0		
4452	11/135	1102	A081	F	MIX	15.07.2005	spring	0		
4453	11/135	1103	092	F		15.07.1996	spring			
4454	11/135	1104	1329	F	MIX	01.09.2003	spring	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
4455	11/135	1105	1391	F	MIX	15.10.2004	spring	0		
4456	11/135	1106	603	F	MIX	15.10.1999	spring	0		
4457	11/135	1107	W012	F	MIX	01.01.2001	spring	0		
4458	11/135	1108	1822	F	MIX	01.09.2005	spring	0	1	0
4459	11/135	1109	1806	F	MIX			0	0	0
4460	11/135	1110	1505	F	MIX	01.09.2004	spring	0	0	0
4461	11/135	1111	A157	F	MIX	24.08.2005	spring	0		
4462	11/135	1112	1861	F	MIX	01.04.2006	spring	0		
4463	11/135	1113	1262	F	MIX	01.09.2003	spring	0		
4464	11/135	1114	1535	F	MIX	15.10.2004	spring	0	0	0
4465	11/135	1115	656	F	4YO	24.02.1999	spring	0		
4466	11/135	1116	697	F	4YO	26.11.1998	spring	0		
4467	11/135	1117	1595	F	MIX	01.04.2005	spring	0	0	0
4468	11/135	1118	A088	F	MIX	25.04.2005	spring	0		
4469	11/135	1119	1860	F	MIX	01.09.2006	spring	0		
4470	11/135	1120	A071	F	MIX	11.03.2005	spring	0		
4471	11/135	1121	1560	F	4YO	01.09.2004	spring	0	0	0
4472	11/135	1122	951	F	MIX	01.04.2001	spring	0		
4473	11/135	1123	1839	F	MIX	01.04.2006	spring	0	0	0
4474	11/135	1124	1444	F	4YO	01.09.2004	spring	0		
4475	11/135	1125	1517	F	MIX	15.10.2004	spring	0	0	0
4476	11/135	1126	368	F	3YO	31.03.1998	spring	0		
4477	11/135	1127	W014	F	MIX	01.01.2001	spring	0		
4478	11/135	1128	753	F	4YO	15.02.1999	spring	0		
4479	11/135	1129	1280	F	4YO	01.09.2003	spring	0	0	0
4480	11/135	1130	W151	F	MIX	11.05.2001	spring	0		
4481	11/135	1131	750	F	4YO	15.09.1999	spring	0		
4482	11/135	1132	1466	F	MIX	15.10.2004	spring	0		
4483	11/135	1133	1765					1	1	1
4484	11/135	1134	526	F	3YO	25.09.1998	spring	0		
4485	11/135	1135	187	F	MIX	09.08.1997	spring	0		
4486	11/135	1136	1393	F	MIX	15.10.2004	spring	0		
4487	11/135	1137	1889	F		15.04.2006	spring	0		
4488	11/135	1138	X071	F	MIX	02.08.2002	spring	0		
4489	11/135	1139	822	F	4YO	01.09.1999	spring	0		
4490	11/135	1140	891	F	3YO	25.01.2000	spring	0		
4491	11/135	1141	1704	F	MIX	01.09.2006	spring	0		
4492	11/135	1142	1173	F	MIX	01.03.2003	spring	0		
4493	11/135	1143	171							
4494	11/135	1144	A111	F	MIX	22.07.2005	spring	0		
4495	11/135	1145	W044			08.02.2001	spring			
4496	11/135	1146	1796	F	MIX			1	1	1
4497	11/135	1147	1804	F	MIX			0	1	0
4498	11/135	1148	327	F	3YO	15.03.1998	spring	0		
4499	11/135	1149	1506	F	3YO	01.09.2004	spring	0	0	0
4500	11/135	1150	A075	F	MIX	15.07.2005	spring	0		
4501	11/135	1151	A128	F	MIX	30.07.2005	spring	0		
4502	11/135	1152	1405	F	MIX	01.09.2004	spring	0		
4503	11/135	1153	1549	F	4YO	01.09.2004	spring	0	1	0
4504	11/135	1154	726	F	MIX	15.10.1999	spring	0		
4505	11/135	1155	1316	F	MIX	01.09.2003	spring	0		
4506	11/135	1156	406	F	4YO	23.05.1998	spring	0		
4507	11/135	1157	943	F	MIX	01.02.2000	spring	0		
4508	11/135	1158	627	F	MIX	01.09.1999	spring	0		
4509	11/135	1159	1895	F	MIX	01.04.2006	spring	0		
4510	11/135	1160	995	F	MIX	22.01.2001	spring	0		
4511	11/135	1161	A156	F	4YO	19.08.2005	spring	0		
4512	11/135	302		BULL						
4513	11/135	302		BULL						
4514	11/135	305		BULL						
4515	11/135	306		BULL						
4516	11/135	320		BULL						
4517	11/135	323		BULL						
4518	11/135	332		BULL						
4519	11/154	681	A110			20.07.2005	autumn	0		
4520	11/154	682	2390	F		01.04.2007	autumn	1	1	0
4521	11/154	1	F698							
4522	11/154	2	F695							
4523	11/154	3	F580							

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
4524	11/154	4	F582							
4525	11/154	5	F572							
4526	11/154	6	F697							
4527	11/154	7	F685							
4528	11/154	8	F691							
4529	11/154	9	F601							
4530	11/154	10	F600							
4531	11/154	11	F693							
4532	11/154	12	F687							
4533	11/154	13	F588							
4534	11/154	14	F587							
4535	11/154	15	F683							
4536	11/154	16	F692							
4537	11/154	17	F689							
4538	11/154	18	W181	M	?			0		
4539	11/154	19	Y203	M	?			0		
4540	11/154	20	W111	M	?			0		
4541	11/154	21	W22	M	?			0		
4542	11/154	22	Y56	M	?			3	0	0
4543	11/154	23	B1028							
4544	11/154	24	Y146	M	?			0		
4545	11/154	25	Y50	M	?			0		
4546	11/154	26	Y143	M	?			0		
4547	11/154	27	W5	M	?			0		
4548	11/154	28	W16	M	?			0		
4549	11/154	29	W78							
4550	11/154	30	Y167	M	?			0		
4551	11/154	31	Y59	M	?			0		
4552	11/154	32	Y106	M	3YO			0		
4553	11/154	33	W55	M	?			0		
4554	11/154	34	W166	M	?			0		
4555	11/154	35	Y9	M	?			3	0	0
4556	11/154	36	Y190	M	?			0		
4557	11/154	37	Y101	M	?			0		
4558	11/154	38	Y141							
4559	11/154	39	Y27	M	?			0		
4560	11/154	40	W3	M	?			0		
4561	11/154	41	W10	M	?			0		
4562	11/154	42	W92	M	?			0		
4563	11/154	43	Y18	M	?			0		
4564	11/154	44	2446	F	MIX	01.03.2007	summer	1	1	0
4565	11/154	45	2196	F	MIX	01.09.2006	summer	0		
4566	11/154	46	2395	F	4YO	01.04.2007	spring	0		
4567	11/154	47	1963	F	MIX	01.09.2006	summer	0		
4568	11/154	48	2610	F		01.09.2007	autumn			
4569	11/154	49	2343	F	MIX	01.09.2007	summer	0		
4570	11/154	50	2371	F	MIX	01.09.2006	summer	0		
4571	11/154	51	2394	F	MIX	01.03.2007	summer	0		
4572	11/154	52	2034	F	MIX	01.09.2006	summer	0		
4573	11/154	53	2359	F	MIX	01.09.2007	summer	0		
4574	11/154	54	1808	F	MIX	01.09.2005	autumn	0		
4575	11/154	55	2428	F	?	01.03.2007	summer	1	1	1
4576	11/154	56	2366	F		01.09.2006	summer			
4577	11/154	57	2092	F	MIX	01.09.2006	summer	0		
4578	11/154	58	2449	F	MIX			1	1	1
4579	11/154	59	2099	F	MIX	01.09.2006	summer	0		
4580	11/154	60	2023	F	MIX	01.04.2006	summer	0		
4581	11/154	61	2145	F	MIX	01.03.2006	summer	0		
4582	11/154	62	2232	F	MIX	01.09.2006	spring	0		
4583	11/154	63	2373	F	MIX	01.09.2006	summer	0		
4584	11/154	64	2066	F	MIX	01.09.2006	summer	0		
4585	11/154	65	2331	F	MIX	01.09.2007	summer	0		
4586	11/154	66	2301	F	MIX	01.09.2007	summer	0		
4587	11/154	67	2203	F	MIX	01.09.2006	summer	0		
4588	11/154	68	2081	F		01.09.2006	summer			
4589	11/154	69	2431	F	MIX	01.03.2007	summer	0		
4590	11/154	70	2364	F	MIX	01.09.2006	summer	0		
4591	11/154	71	2169	F	MIX	01.09.2006	summer	0		
4592	11/154	72	1115	F	MIX	01.03.2002	autumn	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
4593	11/154	73	2475	F	MIX	01.03.2007	summer	0		
4594	11/154	74	2135	F	MIX	01.03.2006	summer	0		
4595	11/154	75	2361	F	MIX	01.09.2006	summer	0		
4596	11/154	76	2594	F	MIX	01.09.2007	autumn	0		
4597	11/154	77	2162	F	MIX	01.09.2006	summer	0		
4598	11/154	78	1951	F	MIX	01.04.2006	autumn	0		
4599	11/154	79	2258	F	MIX	01.09.2006	summer	0		
4600	11/154	80	2392	F	MIX	01.03.2007	summer	0		
4601	11/154	81	2470	F	MIX	01.03.2007	summer	0		
4602	11/154	82	2484	F	MIX	01.03.2007	summer	0		
4603	11/154	83	2310	F	MIX	01.09.2007	summer	0		
4604	11/154	84	Y154 BLUE	M	?			0		
4605	11/154	85	2404	F	MIX	01.03.2007	summer	0		
4606	11/154	86	2345							
4607	11/154	87	2349	F	MIX	01.09.2007	summer	0		
4608	11/154	88	Y124	BULL	?			0		
4609	11/154	89	F558							
4610	11/154	90	F1000							
4611	11/154	91	F565							
4612	11/154	92	F688							
4613	11/154	93	F681							
4614	11/154	94	F575	F	?			0		
4615	11/154	95	F682							
4616	11/154	96	F557							
4617	11/154	97	F686							
4618	11/154	98	F549							
4619	11/154	99	F566							
4620	11/154	100	F555							
4621	11/154	101	F690							
4622	11/154	102	F551							
4623	11/154	103	F696							
4624	11/154	104	F700							
4625	11/154	105	F684							
4626	11/154	106	F560							
4627	11/154	107	F694							
4628	11/154	108	F1680							
4629	11/154	109	F699							
4630	11/154	110	F564							
4631	11/154	111	F225							
4632	11/154	112	F169							
4633	11/154	113	F076							
4634	11/154	114	F103							
4635	11/154	115	F122							
4636	11/154	116	F259							
4637	11/154	117	F179							
4638	11/154	118	F149							
4639	11/154	119	F062							
4640	11/154	120	F439							
4641	11/154	121	F018							
4642	11/154	122	F116							
4643	11/154	123	F283							
4644	11/154	124	F276							
4645	11/154	125	F163							
4646	11/154	126	E1042							
4647	11/154	127	F053							
4648	11/154	128	F013							
4649	11/154	129	E0995							
4650	11/154	130	F339							
4651	11/154	131	E1049							
4652	11/154	132	F254							
4653	11/154	133	E1047							
4654	11/154	134	F016							
4655	11/154	135	E0989							
4656	11/154	136	F321							
4657	11/154	137	F141							
4658	11/154	138	F418							
4659	11/154	139	F216							
4660	11/154	140	F181							
4661	11/154	141	E0996							

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
4662	11/154	142	F021							
4663	11/154	143	F190							
4664	11/154	144	WMG165							
4665	11/154	145	E0814							
4666	11/154	146	F106							
4667	11/154	147	WMG31							
4668	11/154	148	E1046							
4669	11/154	149	E1051							
4670	11/154	150	F223							
4671	11/154	151	E0983							
4672	11/154	152	F007							
4673	11/154	153	F039							
4674	11/154	154	F033							
4675	11/154	155	F326							
4676	11/154	156	F147							
4677	11/154	157	E1045							
4678	11/154	158	F325							
4679	11/154	159	F095							
4680	11/154	160	F245							
4681	11/154	161	F010							
4682	11/154	162	F150							
4683	11/154	163	F303							
4684	11/154	164	F328							
4685	11/154	165	F350							
4686	11/154	166	F104							
4687	11/154	167	F048							
4688	11/154	168	F077							
4689	11/154	169	F229							
4690	11/154	170	F957							
4691	11/154	171	F416							
4692	11/154	172	F174							
4693	11/154	173	F308							
4694	11/154	174	F162							
4695	11/154	175	F118							
4696	11/154	176	F170							
4697	11/154	177	F153							
4698	11/154	178	F059							
4699	11/154	179	F304							
4700	11/154	180	F298							
4701	11/154	181	F370							
4702	11/154	182	E1043							
4703	11/154	183	F215							
4704	11/154	184	F270							
4705	11/154	185	F099							
4706	11/154	186	F0330							
4707	11/154	187	E0999							
4708	11/154	188	F342							
4709	11/154	189	F253							
4710	11/154	190	F011							
4711	11/154	191	F096							
4712	11/154	192	E0994							
4713	11/154	193	F132							
4714	11/154	194	F008							
4715	11/154	195	F227							
4716	11/154	196	F127							
4717	11/154	197	E1000							
4718	11/154	198	F051							
4719	11/154	199	F097							
4720	11/154	200	F289							
4721	11/154	201	F124							
4722	11/154	202	F143							
4723	11/154	203	F117							
4724	11/154	204	F278							
4725	11/154	205	F440							
4726	11/154	206	F041							
4727	11/154	207	F319							
4728	11/154	208	F234							
4729	11/154	209	E0998							
4730	11/154	210	F036							

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
4731	11/154	211	F070							
4732	11/154	212	E0990							
4733	11/154	213	E0982							
4734	11/154	214	F437							
4735	11/154	215	F329							
4736	11/154	216	2845							
4737	11/154	217	F037							
4738	11/154	218	F267							
4739	11/154	219	F257							
4740	11/154	220	F128							
4741	11/154	221	F438							
4742	11/154	222	E1044							
4743	11/154	223	F144							
4744	11/154	224	F046							
4745	11/154	225	F151							
4746	11/154	226	F042							
4747	11/154	227	F125							
4748	11/154	228	F204							
4749	11/154	229	F038							
4750	11/154	230	F138							
4751	11/154	231	F351							
4752	11/154	232	E0997							
4753	11/154	233	E0991							
4754	11/154	234	F079							
4755	11/154	235	E0993							
4756	11/154	236	F134							
4757	11/154	237	F207							
4758	11/154	238	F323							
4759	11/154	239	F164							
4760	11/154	240	F193							
4761	11/154	241	F083							
4762	11/154	242	F109							
4763	11/154	243	F213							
4764	11/154	244	F335							
4765	11/154	245	F369							
4766	11/154	246	F172							
4767	11/154	247	F265							
4768	11/154	248	F049							
4769	11/154	249	F166							
4770	11/154	250	F211							
4771	11/154	251	F023							
4772	11/154	252	F019							
4773	11/154	253	F121							
4774	11/154	254	F058							
4775	11/154	255	F012							
4776	11/154	256	F191							
4777	11/154	257	F300							
4778	11/154	258	F056							
4779	11/154	259	F004							
4780	11/154	260	FF192							
4781	11/154	261	F165							
4782	11/154	262	F006							
4783	11/154	263	F029							
4784	11/154	264	F176							
4785	11/154	265	F415							
4786	11/154	266	F436							
4787	11/154	267	F338							
4788	11/154	268	F123							
4789	11/154	269	F255							
4790	11/154	270	F015							
4791	11/154	271	F152							
4792	11/154	272	F199							
4793	11/154	273	F142							
4794	11/154	274	F175							
4795	11/154	275	F035							
4796	11/154	276	F243							
4797	11/154	277	F417							
4798	11/154	278	F222							
4799	11/154	279	F264							

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
4800	11/154	280	F027							
4801	11/154	281	F086							
4802	11/154	282	F080							
4803	11/154	283	F230							
4804	11/154	284	F244							
4805	11/154	285	F017							
4806	11/154	286	F130							
4807	11/154	287	F177							
4808	11/154	288	F354							
4809	11/154	289	F074							
4810	11/154	290	F279							
4811	11/154	291	F269							
4812	11/154	292	F180							
4813	11/154	293	F214							
4814	11/154	294	F081							
4815	11/154	295	F232							
4816	11/154	296	F168							
4817	11/154	297	E1041							
4818	11/154	298	F281							
4819	11/154	299	F071							
4820	11/154	300	F261							
4821	11/154	301	F332							
4822	11/154	302	F288							
4823	11/154	303	F089							
4824	11/154	304	F069							
4825	11/154	305	F314							
4826	11/154	306	F324							
4827	11/154	307	WMG96							
4828	11/154	308	F210							
4829	11/154	309	F275							
4830	11/154	310	E1008	BULL						
4831	11/154	311	E1029	F	MIX			0		
4832	11/154	312	E1015	BULL						
4833	11/154	313	E1056	BULL						
4834	11/154	314	E1030	F	MIX			0		
4835	11/154	315	E1011	BULL						
4836	11/154	316	E1009	BULL						
4837	11/154	317	E1001	BULL						
4838	11/154	318	1057	BULL						
4839	11/154	319	E1004	BULL						
4840	11/154	320	1615	F	MIX			0		
4841	11/154	321	1916	F	MIX	01.04.2006	autumn	0		
4842	11/154	322	1696	F	MIX	01.02.2006	autumn	0		
4843	11/154	323	1740	F	MIX	01.04.2006	autumn	0		
4844	11/154	324	2279	F	MIX	01.09.2007	autumn	0		
4845	11/154	325	WMB42	F		01.02.2008	autumn			
4846	11/154	326	C7111	F	MIX	01.09.2007	autumn	0		
4847	11/154	327	2002	F	MIX	01.04.2007	autumn	0		
4848	11/154	328	283	F	MIX	07.02.1998	autumn	0		
4849	11/154	329	2613	F	MIX	01.09.2007	autumn	0		
4850	11/154	330	609	F	MIX	24.10.1999	autumn	0		
4851	11/154	331	2607	F	MIX	01.09.2007	autumn	0		
4852	11/154	332	1689	F	MIX	01.02.2006	autumn	0		
4853	11/154	333	1683	F	MIX	01.02.2006	autumn	0		
4854	11/154	334	1690	F	MIX	01.02.2006	autumn	0		
4855	11/154	335	1623	F	MIX	01.04.2005	autumn	0		
4856	11/154	336	1237	F	MIX	01.09.2003	autumn	0		
4857	11/154	337	1930	F	MIX	01.04.2006	autumn	0		
4858	11/154	338	2847	F	4YO	01.02.2008	spring	0		
4859	11/154	339	631	F	MIX	01.09.1999	autumn	0		
4860	11/154	340	2563	F	MIX	01.09.2007	autumn	0		
4861	11/154	341	2329	F	MIX	01.09.2007	autumn	0		
4862	11/154	342	2596	F	MIX	01.09.2007	autumn	0		
4863	11/154	343	2158	F	MIX	01.09.2006	autumn	0		
4864	11/154	344	115							
4865	11/154	345	2021	F	MIX	01.09.2006	autumn	0		
4866	11/154	346	2681	F	MIX	01.09.2008	autumn	0		
4867	11/154	347	1669	F		01.04.2005	autumn			
4868	11/154	348	WMB13	F		01.02.2008	autumn			



FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
4869	11/154	349	2645	F	MIX	01.09.2007	autumn	0		
4870	11/154	350	117							
4871	11/154	351	WMB71	F		01.02.2008	autumn			
4872	11/154	352	2493	F	MIX	01.04.2007	autumn	0		
4873	11/154	353	1593	F	MIX	01.04.2005	autumn	0		
4874	11/154	354	1859	F	MIX	01.09.2006	autumn	0		
4875	11/154	355	WMB16	F		01.02.2008	autumn			
4876	11/154	356	WMB111	F		01.02.2008	autumn			
4877	11/154	357	2294	F		01.09.2007	autumn			
4878	11/154	358	1684	F	MIX	01.02.2006	autumn	0		
4879	11/154	359	2628	F	MIX	01.09.2007	autumn	0		
4880	11/154	360	2291	F	MIX	01.09.2007	autumn	0		
4881	11/154	361	1798	F	MIX	01.09.2005	autumn	0		
4882	11/154	362	171							
4883	11/154	363	2619	F	MIX	01.09.2007	autumn	0		
4884	11/154	364	1923	F	MIX	01.09.2005	autumn	0		
4885	11/154	365	WMB003	F		?	autumn			
4886	11/154	366	2865	F	MIX	01.04.2008	autumn	0		
4887	11/154	367	2672	F	MIX	01.09.2008	autumn	0		
4888	11/154	368	2293	F	MIX	01.09.2007	autumn	0		
4889	11/154	369	2637	F	MIX	01.09.2007	autumn	0		
4890	11/154	370	2863	F	MIX	01.04.2008	autumn	0		
4891	11/154	371	2306	F	MIX	01.09.2007	autumn	0		
4892	11/154	372	2559	F	MIX	01.09.2007	autumn	0		
4893	11/154	373	WMB53	F		01.02.2008	autumn			
4894	11/154	374	2540	F	MIX	01.09.2007	autumn	0		
4895	11/154	375	1149	F	MIX	01.02.2003	autumn	0		
4896	11/154	376	2861	F	MIX	01.04.2008	autumn	0		
4897	11/154	377	2860	F	MIX	01.08.2008	autumn	0		
4898	11/154	378	2626	F	MIX	01.09.2007	autumn	0		
4899	11/154	379	2872	F	MIX	01.04.2008	autumn	0		
4900	11/154	380	2864	F	MIX	01.04.2008	autumn	0		
4901	11/154	381	1796							
4902	11/154	382	2282	F	MIX	01.09.2007	autumn	0		
4903	11/154	383	1601	F	MIX	01.04.2005	autumn	0		
4904	11/154	384	928	F	MIX	01.04.2001	autumn	0		
4905	11/154	385	2609	F	MIX	01.09.2007	autumn	0		
4906	11/154	386	2516	F	MIX	01.09.2007	autumn	0		
4907	11/154	387	2524	F	MIX	01.09.2007	autumn	0		
4908	11/154	388	2857	F	MIX	01.08.2008	autumn	0		
4909	11/154	389	C7181	F	MIX	01.09.2007	autumn	0		
4910	11/154	390	1170	F	MIX	01.03.2003	autumn	0		
4911	11/154	391	2674	F	MIX	01.09.2008	autumn	0		
4912	11/154	392	2651	F	MIX	01.09.2007	autumn	0		
4913	11/154	393	2379	F	MIX	01.04.2007	autumn	0		
4914	11/154	394	2598	F	MIX	01.09.2007	autumn	0		
4915	11/154	395	WMB79							
4916	11/154	396	2152	F		01.09.2006	autumn			
4917	11/154	397	2633	F	MIX	01.09.2007	autumn	0		
4918	11/154	398	2393	F	MIX	01.04.2007	autumn	1		1
4919	11/154	399	2550	F	MIX	01.09.2007	autumn	0		
4920	11/154	400	2442	F	MIX	01.04.2007	autumn	0	0	0
4921	11/154	401	1250	F	MIX	01.09.2003	autumn	0	0	0
4922	11/154	402	884	F	MIX	22.10.1999	autumn	0	0	0
4923	11/154	403	555	F	MIX	04.10.1998	autumn	0	0	0
4924	11/154	404	WMB47	F		01.02.2008	autumn			
4925	11/154	405	2611	F	MIX	01.09.2007	autumn	0		
4926	11/154	406	2474	F	MIX	01.04.2007	autumn	1	1	1
4927	11/154	407	WMB850							
4928	11/154	408	2539	F	MIX	01.09.2007	autumn	0	0	0
4929	11/154	409	2501	F	MIX	01.09.2007	autumn	0	0	0
4930	11/154	410	2412	F	MIX	01.04.2007	autumn	0	0	0
4931	11/154	411	124						0	0
4932	11/154	412	1914	F	MIX	01.09.2005	autumn	0	1	0
4933	11/154	413	2267	F	MIX	01.09.2006	autumn	0	0	0
4934	11/154	414	C6430	F	MIX	01.09.2007	autumn	0		
4935	11/154	415	2606	F	MIX	01.09.2007	autumn	0		
4936	11/154	416	2869	F		01.04.2008	autumn			
4937	11/154	417	910	F	MIX	01.04.2001	autumn	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
4938	11/154	418	1792	F	MIX	01.09.2006	autumn	0		
4939	11/154	419	671	F	MIX	15.04.1999	autumn	0		
4940	11/154	420	2603	F	MIX	01.09.2007	autumn	0		
4941	11/154	421	2112	F	MIX	01.09.2006	autumn	0		
4942	11/154	422	1655	F	MIX	01.04.2005	autumn	0		
4943	11/154	423	2650	F	MIX	01.09.2007	autumn	0		
4944	11/154	424	642	F	MIX	01.09.1999	autumn	1	0	0
4945	11/154	425	322	F	MIX	27.02.1998	autumn	0		
4946	11/154	426	1441	F	MIX	01.09.2004	autumn	0		
4947	11/154	427	2614	F	MIX	01.09.2007	autumn	0		
4948	11/154	428	2676	F		01.09.2008	autumn			
4949	11/154	429	786	F	MIX	15.09.1999	autumn	0		
4950	11/154	430	2662	F	MIX	01.09.2007	autumn	0		
4951	11/154	431	2221	F	MIX	01.09.2006	autumn	0		
4952	11/154	432	2534	F	MIX	01.09.2007	autumn	0		
4953	11/154	433	2593	F	MIX			0		
4954	11/154	434	2531	F	MIX	01.09.2007	autumn	0		
4955	11/154	435	1596	F	MIX	01.04.2005	autumn	0		
4956	11/154	436	2604	F	MIX	01.09.2007	autumn	0		
4957	11/154	437	1904	F	MIX	01.04.2006	autumn	0		
4958	11/154	438	2344	F	MIX			0	0	0
4959	11/154	439	WMB70	F		01.02.2008	autumn			
4960	11/154	440	2859	F	MIX	01.08.2008	autumn	0		
4961	11/154	441	1469	F	MIX	01.09.2004	autumn	0		
4962	11/154	442	2634	F	MIX	01.09.2007	autumn	0		
4963	11/154	443	1742	F		01.09.2005	autumn			
4964	11/154	444	1502	F		15.10.2004	autumn			
4965	11/154	445	2592	F		01.09.2007	autumn			
4966	11/154	446	WMB19	F		01.02.2008	autumn			
4967	11/154	447	2657	F	MIX	01.09.2007	autumn	0		
4968	11/154	448	2494	F	MIX	01.04.2007	autumn	1	1	1
4969	11/154	449	WMB10	F		01.02.2008	autumn			
4970	11/154	450	1383	F	MIX	01.10.2004	autumn	0		
4971	11/154	451	2309	F	MIX	01.09.2007	autumn	0	1	0
4972	11/154	452	2873	F	MIX	01.04.2008	autumn	0		
4973	11/154	453	1080	F	MIX	01.03.2002	autumn	0		
4974	11/154	454	1883	F	MIX	01.04.2006	autumn	0		
4975	11/154	455	624	F	MIX	01.09.1999	autumn	0		
4976	11/154	456	630	F	MIX	01.09.1999	autumn	0		
4977	11/154	457	679	F	MIX	27.02.1999	autumn	0		
4978	11/154	458	2630	F	MIX	01.09.2007	autumn	0		
4979	11/154	459	1504	F	MIX	01.09.2004	autumn	1	1	1
4980	11/154	460	WMB43	F		01.02.2008	autumn			
4981	11/154	461	1836	F	MIX	01.04.2006	autumn	0		
4982	11/154	462	2522	F	MIX	01.09.2007	autumn	0		
4983	11/154	463	1687	F	MIX	01.02.2006	autumn	0		
4984	11/154	464	2403	F	MIX	01.04.2007	autumn	0	0	0
4985	11/154	465	2159	F	MIX	01.09.2005	autumn	1	1	1
4986	11/154	466	2464	F	MIX	01.04.2007	autumn	0	0	0
4987	11/154	467	1226	F	MIX	01.02.2004	autumn	0		
4988	11/154	468	1921	F	MIX	01.04.2006	autumn	0		
4989	11/154	469	2569	F	MIX	01.09.2007	autumn	0		
4990	11/154	470	1717	F	MIX	01.04.2006	autumn	0		
4991	11/154	471	1631	F	MIX	01.04.2005	autumn	0		
4992	11/154	472	2615	F	MIX	01.09.2007	autumn	0		
4993	11/154	473	1463	F		15.10.2004	autumn			
4994	11/154	474	129							
4995	11/154	475	1537	F	MIX	01.10.2004	autumn	0		
4996	11/154	476	818	F	4TO	01.09.2000	spring	0		
4997	11/154	477	1403	F	MIX	01.10.2004	autumn	0		
4998	11/154	478	660	F	MIX	25.11.1998	autumn	0		
4999	11/154	479	1378	F	MIX	01.09.2003	autumn	0		
5000	11/154	480	2093	F	MIX	01.04.2006	autumn	0		
5001	11/154	481	2867	F	MIX	01.04.2008	autumn	0		
5002	11/154	482	819	F	MIX	01.09.2000	autumn	0		
5003	11/154	483	332	BULL						
5004	11/154	484	1031	BULL						
5005	11/154	485	306	BULL						
5006	11/154	486	1035	BULL						

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
5007	11/154	487	320	BULL						
5008	11/154	488	338	BULL						
5009	11/154	489	1032	BULL						
5010	11/154	490	2071	F		01.09.2006	autumn			
5011	11/154	491	2640	F	MIX	01.09.2007	autumn	0	0	0
5012	11/154	492	2128	F	MIX	01.09.2006	autumn	0	0	0
5013	11/154	493	A085	F	MIX	24.03.2005	autumn	0	0	0
5014	11/154	494	2543	F	MIX	01.09.2007	autumn	0	0	0
5015	11/154	495	2365	F	MIX	01.09.2006	autumn	0	0	0
5016	11/154	496	1925	F	MIX	01.04.2006	autumn	0	0	0
5017	11/154	497	898	F	MIX	01.09.2000	autumn	1	1	0
5018	11/154	498	744	F	MIX	15.11.1998	autumn	0	1	1
5019	11/154	499	2684	F	MIX	01.09.2008	autumn	0		
5020	11/154	500	1945	F	MIX	01.04.2006	autumn	0		
5021	11/154	501	1567	F	MIX	01.10.2004	autumn	0		
5022	11/154	502	A121	F	MIX	29.07.2005	autumn	0		
5023	11/154	503	646	F	3YO	01.09.1999	spring	0		
5024	11/154	504	1760	F	MIX	01.09.2005	autumn	0		
5025	11/154	505	2644	F	MIX	01.09.2007	autumn	0		
5026	11/154	506	2450	F	MIX	01.04.2007	autumn	0	0	0
5027	11/154	507	2566	F	MIX	01.09.2007	autumn	0		
5028	11/154	508	1132	F	MIX	01.03.2002	autumn	0		
5029	11/154	509	1699	F	MIX	01.02.2006	autumn	0		
5030	11/154	510	1150	F	MIX	10.02.2003	autumn	0		
5031	11/154	511	1686	F	MIX	01.02.2006	autumn	0		
5032	11/154	512	2458	F	MIX	01.04.2007	autumn	0	1	0
5033	11/154	513	2850	F	MIX	01.04.2008	autumn	0		
5034	11/154	514	1617	F	MIX	01.04.2005	autumn	0		
5035	11/154	515	1100	F	MIX	01.03.2002	autumn	0		
5036	11/154	516	WMB63	F		01.02.2008	autumn	0		
5037	11/154	517	1456	F	MIX	01.10.2004	autumn	0		
5038	11/154	518	1805	F	MIX	01.04.2006	autumn	0		
5039	11/154	519	2858	F	MIX	01.08.2008	autumn	0		
5040	11/154	520	303							
5041	11/154	521	927	F	MIX	01.04.2001	autumn	0	0	0
5042	11/154	522	72	F	?	18.05.1996	autumn	0		
5043	11/154	523	1694	F	MIX	01.02.2006	autumn	0		
5044	11/154	524	2617	F	MIX	01.09.2007	autumn	1	1	1
5045	11/154	525	2620	F	MIX	01.09.2007	autumn	0	0	0
5046	11/154	526	1146	F	MIX	02.02.2003	autumn	0		
5047	11/154	527	959	F	MIX	01.04.2001	spring	0		
5048	11/154	528	1174	F	MIX	01.03.2003	autumn	0		
5049	11/154	529	1135	F	MIX	01.03.2002	autumn	0		
5050	11/154	530	1693	F	MIX			0		
5051	11/154	531	2871	F	MIX	01.04.2008	autumn	0		
5052	11/154	532	WMB852							
5053	11/154	533	2632	F	MIX	01.09.2007	autumn	0		
5054	11/154	534	2525	F	MIX	01.09.2007	autumn	0	0	0
5055	11/154	535	2648	F		01.09.2007	autumn			
5056	11/154	536	2317	F	MIX	01.09.2007	autumn	0		
5057	11/154	537	1389	F	MIX	01.10.2004	autumn	0		
5058	11/154	538	2043	F	MIX	01.09.2005	autumn	0		
5059	11/154	539	303	BULL						
5060	11/154	540	2860							
5061	11/154	541	2608	F	MIX	01.09.2007	autumn	0		
5062	11/154	542	1955	F	MIX	01.04.2006	autumn	0		
5063	11/154	543	2875	F	MIX	01.04.2008	autumn	0		
5064	11/154	544	Y01	F	MIX	01.02.2003	autumn	0		
5065	11/154	545	2639	F	MIX	01.09.2007	autumn	0		
5066	11/154	546	521	F		23.09.1998	autumn			
5067	11/154	547	066	F	MIX	16.05.1996	autumn	0		
5068	11/154	548	2380	F	MIX	01.04.2007	autumn	0	1	1
5069	11/154	549	1909	F	MIX	01.09.2005	autumn	0		
5070	11/154	550	1857	F	MIX	01.04.2006	autumn	0		
5071	11/154	551	2631	F	MIX	01.09.2007	autumn	0		
5072	11/154	552	2469	F	MIX	01.04.2007	autumn	1	1	1
5073	11/154	553	1844	F	MIX	01.09.2005	autumn	0		
5074	11/154	554	1278	F	4YO	01.09.2003	spring	0		
5075	11/154	555	1134	F	MIX	01.03.2002	autumn	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
5076	11/154	556	2438	F	MIX	01.04.2007	autumn	0	0	0
5077	11/154	557	981	F	MIX	01.04.2001	autumn	0		
5078	11/154	558	1668	F	MIX	01.02.2006	autumn	0		
5079	11/154	559	2056	F	MIX	01.04.2006	autumn	0		
5080	11/154	560	642							
5081	11/154	561	2086	F	MIX	01.09.2006	autumn	0		
5082	11/154	562	WMB11	F		01.02.2008	autumn			
5083	11/154	563	2612	F	MIX	01.09.2007	autumn	0		
5084	11/154	564	2673	F	MIX	01.09.2008	autumn	0		
5085	11/154	565	1093	F	MIX	01.03.2002	autumn	0		
5086	11/154	566	1602	F	MIX	01.04.2005	autumn	0		
5087	11/154	567	A159	F	MIX	30.08.2005	autumn	0		
5088	11/154	568	W178	F	MIX	20.05.2001	autumn	1	1	1
5089	11/154	569	2670	F	MIX	01.09.2008	autumn	0		
5090	11/154	570	2600	F	MIX	01.09.2007	autumn	0		
5091	11/154	571	1750	F	MIX	01.09.2005	autumn	0	0	0
5092	11/154	572	1542	F	MIX	15.10.2004	autumn	0		
5093	11/154	573	V044	F	MIX	12.08.2000	autumn	0		
5094	11/154	574	2420	F		01.04.2007	autumn			
5095	11/154	575	1932	F	MIX	01.04.2006	autumn	0		
5096	11/154	576	1927	F	MIX	01.04.2006	autumn	0		
5097	11/154	577	C7163	F	MIX	01.09.2007	autumn	0		
5098	11/154	578	1770	F	MIX	01.04.2006	autumn	1		
5099	11/154	579	632	F	MIX	01.09.1999	autumn	0	0	0
5100	11/154	580	1897	F	MIX	01.09.2005	autumn	0	0	0
5101	11/154	581	2334	F	MIX	01.09.2007	autumn	0	1	0
5102	11/154	582	2190	F	MIX	01.09.2005	autumn	0		
5103	11/154	583	WMB90	F		01.02.2008	autumn			
5104	11/154	584	2440	F	MIX	01.04.2007	autumn	0		
5105	11/154	585	2663	F	MIX	01.09.2007	autumn	0		
5106	11/154	586	2263	F	MIX	01.09.2006	autumn	0		
5107	11/154	587	2241	F	MIX	01.09.2006	autumn	0		
5108	11/154	588	1853	F	MIX	01.02.2006	autumn	0		
5109	11/154	589	488	F	MIX	09.08.1998	autumn	0		
5110	11/154	590	087	F	MIX	24.05.1996	autumn	0		
5111	11/154	591	2156	F	MIX	01.09.2006	autumn	0		
5112	11/154	592	2682	F	MIX	01.09.2008	autumn	0		
5113	11/154	593	2825	F	MIX	01.09.2008	autumn	0		
5114	11/154	594	2680	F	MIX	01.09.2008	autumn	0		
5115	11/154	595	2183	F	MIX	01.09.2006	autumn	0		
5116	11/154	596	2448	F	MIX	01.04.2007	autumn	0		
5117	11/154	597	1685	F	MIX	01.02.2006	autumn	0		
5118	11/154	598	2198	F		01.04.2006	autumn			
5119	11/154	599	2377	F	MIX	01.09.2006	autumn	0		
5120	11/154	600	545	F	MIX	05.10.1998	autumn	0		
5121	11/154	601	1702	F	MIX	01.04.2006	autumn	0		
5122	11/154	602	2391	F	MIX	01.04.2007	autumn	0		
5123	11/154	603	2557	F	MIX	01.09.2007	autumn	0		
5124	11/154	604	2297	F	MIX	01.09.2007	autumn	0		
5125	11/154	605	2577	F	MIX	01.09.2007	autumn	0		
5126	11/154	606	1935	F		01.04.2006	autumn			
5127	11/154	607	2410	F	MIX	01.04.2007	autumn	0		
5128	11/154	608	2312	F	MIX	01.09.2007	autumn	0		
5129	11/154	609	2683	F	MIX	01.09.2008	autumn	0		
5130	11/154	610	685	F	MIX	27.11.1998	autumn	0		
5131	11/154	611	2638	F	MIX	01.09.2007	autumn	0		
5132	11/154	612	906	F	MIX	01.04.2001	autumn	0		
5133	11/154	613	1676	F	MIX	01.02.2006	autumn	0		
5134	11/154	614	2526	F	MIX	01.09.2007	autumn	0		
5135	11/154	615	WMB131	F		01.02.2008	autumn			
5136	11/154	616	1235	F	MIX	01.09.2003	autumn	0	0	0
5137	11/154	617	2653	F	MIX	01.09.2007	autumn	0		
5138	11/154	618	1813	F	MIX	01.04.2006	autumn	0		
5139	11/154	619	2419	F	MIX	01.04.2007	autumn	0		
5140	11/154	620	173?							
5141	11/154	621	1795	F	MIX	01.09.2005	autumn	0		
5142	11/154	622	2589	F	MIX	01.09.2007	autumn	0		
5143	11/154	623	696	F	?	27.02.1999	autumn	0		
5144	11/154	624	2591	F	MIX	01.09.2007	autumn	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
5145	11/154	625	2214	F	MIX	01.09.2006	autumn	0		
5146	11/154	626	1483	F	MIX	01.10.2004	autumn	0		
5147	11/154	627	1312	F	MIX	01.09.2003	autumn	0	0	0
5148	11/154	628	2597	F	MIX	01.09.2007	autumn	0		
5149	11/154	629	1802	F	MIX	01.04.2006	autumn	0		
5150	11/154	630	1196	F	MIX			1	1	1
5151	11/154	631	867	F	MIX	01.09.2000	autumn	0		
5152	11/154	632	1688	F	MIX	01.02.2006	autumn	0		
5153	11/154	633	1382	F		01.09.2003	autumn			
5154	11/154	634	2429	F	MIX	01.04.2007	autumn	0		
5155	11/154	635	1493	F	MIX	01.09.2004	autumn	0		
5156	11/154	636	2347	F	MIX	01.09.2007	autumn	0		
5157	11/154	637	2627	F	MIX	01.09.2007	autumn	0		
5158	11/154	638	2178	F	MIX	01.09.2006	autumn	0		
5159	11/154	639	2215	F		01.09.2006	autumn			
5160	11/154	640	2641	F	MIX	01.09.2007	autumn	0		
5161	11/154	641	1726	F	MIX	01.04.2006	autumn	0		
5162	11/154	642	A135	F	MIX	01.08.2005	autumn	0		
5163	11/154	643	1414	F	4YO	15.10.2004	autumn	0		
5164	11/154	644	1349	F	MIX	01.09.2003	autumn	0		
5165	11/154	645	2194	F	MIX	01.09.2006	autumn	0		
5166	11/154	646	2562	F	MIX	01.09.2007	autumn	0		
5167	11/154	647	C7100	F	MIX	01.09.2007	autumn	0		
5168	11/154	648	1939	F	MIX	01.04.2006	autumn	0		
5169	11/154	649	1799	F	MIX	01.09.2005	autumn	0		
5170	11/154	650	2184	F	MIX	01.09.2006	autumn	0		
5171	11/154	651	1137	F	MIX	01.03.2002	autumn	0		
5172	11/154	652	2849	F	MIX	01.04.2008	autumn	0		
5173	11/154	653	2006	F	MIX	01.09.2006	autumn	0		
5174	11/154	654	1230	F	MIX	01.09.2003	autumn	0		
5175	11/154	655	2122	F	MIX	01.09.2006	autumn	0		
5176	11/154	656	1754	F	MIX	01.01.2001	autumn	0		
5177	11/154	657	657	F	MIX	27.11.1998	autumn	0		
5178	11/154	658	1633	F	MIX	01.04.2005	autumn	0		
5179	11/154	659	1681	F	MIX	01.02.2006	autumn	0		
5180	11/154	660	1233	F	MIX	01.09.2003	autumn	0		
5181	11/154	661	097	F	MIX	01.09.1996	autumn	0		
5182	11/154	662	2517	F	MIX	01.09.2007	autumn	0		
5183	11/154	663	2109	F		01.09.2006	autumn			
5184	11/154	664	1794	F	MIX	01.04.2006	autumn	0		
5185	11/154	665	A145	F	MIX	09.08.2005	autumn	0		
5186	11/154	666	1719	F	MIX	01.01.2001	autumn	0		
5187	11/154	667	1821	F	MIX	01.09.2005	autumn	0		
5188	11/154	668	1019	F	MIX	10.02.2001	autumn	0		
5189	11/154	669	454	F	MIX	27.07.1998	autumn	0		
5190	11/154	670	1437	F	MIX	01.10.2004	autumn	0		
5191	11/154	671	1061	BULL						
5192	11/154	672	1511	F	MIX	01.10.2004	autumn	0		
5193	11/154	673	X106	F	MIX	24.11.2002	autumn	0		
5194	11/154	674	A090	F	MIX	24.05.2005	autumn	0		
5195	11/154	675	2507	F	MIX	01.09.2007	autumn	0		
5196	11/154	676	1561	F	MIX	15.10.2004	autumn	0		
5197	11/154	677	2658	F	MIX	01.09.2007	autumn	0		
5198	11/154	678	2585	F	MIX	01.09.2007	autumn	0		
5199	11/154	679	2026	F	MIX	01.09.2006	autumn	0		
5200	11/154	680	1665	F	MIX	01.04.2005	autumn	0		
5201	11/154	681	A110	F	MIX	20.07.2005	autumn	0		
5202										
5203	11/154	683	302							
5204	11/154	684	305							
5205	11/154	685	1040	F	MIX	01.08.2001	spring	0		
5206	11/154	686	323							
5207	11/154	687	E1014							
5208	11/156	1	1948	F	MIX	01.09.2006	summer	1	1	1
5209	11/156	2	1800	F	MIX	01.08.2006	summer	1	0	0
5210	11/156	3	2488	F	MIX	01.03.2007	summer	0	0	0
5211	11/156	4	2356	F	MIX	01.09.2007	summer	0	0	0
5212	11/156	5	2252	F	MIX	01.03.2006	summer	0	0	0
5213	11/156	6	2441	F	MIX	01.03.2007	summer	0	0	0

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
5214	11/156	7	2357	F	MIX	01.09.2007	summer	0		
5215	11/156	8	2341	F	MIX	01.09.2007	summer	0		
5216	11/156	9	2762	F	MIX	01.08.2008	summer	0		
5217	11/156	10	2163	F	MIX	01.09.2006	summer	0		
5218	11/156	11	2233	F	MIX	01.09.2006	summer	0		
5219	11/156	12	1950	F	MIX	01.03.2006	summer	0		
5220	11/156	13	2125	F	MIX	01.03.2006	summer	0		
5221	11/156	14	2315	F	MIX	01.09.2007	summer	0		
5222	11/156	15	2117	F	MIX	01.03.2006	summer	0		
5223	11/156	16	2274	F	MIX	01.09.2006	summer	0		
5224	11/156	17	1295	F	MIX	01.09.2003	summer	0		
5225	11/156	18	2003	F	MIX	01.03.2006	summer	0		
5226	11/156	19	2041	F	MIX	01.09.2006	summer	0		
5227	11/156	20	2339	F	MIX	01.09.2007	summer	0		
5228	11/156	21	2500	F	MIX	01.03.2007	summer	0		
5229	11/156	22	2325	F	MIX	01.09.2007	summer	1	0	1
5230	11/156	23	2137	F	MIX	01.03.2006	summer	0		
5231	11/156	24	2064	F	MIX	01.09.2006	summer	0		
5232	11/156	25	2091	F	MIX	01.03.2006	summer	0		
5233	11/156	26	2114	F	MIX	01.03.2006	summer	0		
5234	11/156	27	2376	F	MIX	01.09.2006	summer	0		
5235	11/156	28	2244	F	MIX	01.09.2006	summer	0		
5236	11/156	29	2259	F	MIX	01.09.2006	summer	0		
5237	11/156	30	2272	F	MIX	01.03.2006	summer	0		
5238	11/156	31	2042	F	MIX	01.09.2006	summer	0	0	1
5239	11/156	32	1781	F	MIX	01.09.2005	summer	0		
5240	11/156	33	2253	F	MIX	01.09.2006	summer	0		
5241	11/156	34	2096	F	MIX	01.09.2005	summer	1		
5242	11/156	35	2401	F	MIX	01.03.2007	summer	0	0	1
5243	11/156	36		F	MIX	01.09.2003	summer	1		
5244	11/156	37	2138	F	MIX	01.09.2005	summer	0		
5245	11/156	38	2307	F	MIX	01.09.2007	summer	0		
5246	11/156	39	2266	F	MIX	01.09.2006	summer	0		
5247	11/156	40	2124	F	MIX	01.03.2006	summer	0		
5248	11/156	41	1468	F	MIX	15.10.5004	summer	0		
5249	11/156	42	2151	F	MIX	01.09.2006	summer	0		
5250	11/156	43	2195	F	MIX	01.09.2006	summer	0		
5251	11/156	44	2338	F	MIX	01.09.2007	summer	0		
5252	11/156	45	2167	F	MIX	31.12.2006	summer	0		
5253	11/156	46	2332	F	MIX	01.09.2007	summer	0		
5254	11/156	47	2098	F	MIX	01.09.2006	summer	0		
5255	11/156	48	2053	F	MIX	01.09.2006	summer	0		
5256	11/156	49	2249	F	MIX	01.09.2006	summer	0		
5257	11/156	50	2047	F	MIX	01.09.2006	summer	0		
5258	11/156	51	2386	F	MIX	01.03.2007	summer	0		
5259	11/156	52	2063	F	MIX	01.09.2006	summer	0		
5260	11/156	53	2482	F	MIX	01.03.2007	summer	0		
5261	11/156	54	2025	F	MIX	01.09.2006	summer	0		
5262	11/156	55	2264	F	MIX	01.09.2006	summer	0		
5263	11/156	56	2022	F	MIX	01.04.2006	summer	0		
5264	11/156	57	2396	F	MIX	01.03.2007	summer	0		
5265	11/156	58	2084	F	MIX	01.09.2006	summer	0		
5266	11/156	59	2012	F	MIX	01.09.2006	summer	0		
5267	11/156	60	2235	F	MIX	01.09.2006	summer	0		
5268	11/156	61	2479	F	MIX	01.03.2007	summer	0		
5269	11/156	62	2435	F	MIX	01.03.2007	summer	1	1	1
5270	11/156	63	2101	F	MIX	01.09.2006	summer	0		
5271	11/156	64	2314	F	MIX	01.09.2007	summer	0		
5272	11/156	65	2434	F	MIX	01.03.2007	summer	0	1	1
5273	11/156	66	2337	F	MIX	01.09.2007	summer	0		
5274	11/156	67	2224	F	MIX	01.09.2006	summer	0		
5275	11/156	68	2324	F	MIX	01.09.2007	summer	0		
5276	11/156	69	2072	F	MIX	01.09.2006	summer	0		
5277	11/156	70	2876	F	MIX	01.09.2007	summer	0		
5278	11/156	71	2311	F	MIX	01.09.2007	summer	0		
5279	11/156	72	2171	F	MIX	01.09.2006	summer	0		
5280	11/156	73	2375	F	MIX	01.09.2006	summer	0		
5281	11/156	74	2351	F	MIX	01.09.2007	summer	0		
5282	11/156	75	2192	F	MIX	10.03.2006	summer	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
5283	11/156	76	2243	F	MIX	01.03.2006	summer	0		
5284	11/156	77	2001	F	MIX	01.09.2006	summer	0		
5285	11/156	78	2028	F	MIX	01.03.2006	summer	0		
5286	11/156	79	1962	F	MIX	01.09.2006	summer	0		
5287	11/156	80	1952	F	MIX	01.03.2006	summer	0		
5288	11/156	81	2182	F	MIX	01.09.2006	summer	0		
5289	11/156	82	2007	F	MIX	01.09.2006	summer	0		
5290	11/156	83	2327	F	MIX	01.09.2007	summer	0		
5291	11/156	84	2819	F	MIX	01.09.2007	summer	0		
5292	11/156	85	2246	F	MIX	01.09.2006	summer	0		
5293	11/156	86	A099	F	MIX	14.07.2005	summer	0		
5294	11/156	87	2141	F		01.09.2006	summer			
5295	11/156	88	2008	F	MIX	01.09.2006	summer	0		
5296	11/156	89	2105	F	MIX	01.09.2006	summer	0		
5297	11/156	90	2348	F	MIX	01.09.2007	summer	0		
5298	11/156	91	2048	F	MIX	01.09.2006	summer	0		
5299	11/156	92	2483	F	MIX	01.03.2007	summer	0		
5300	11/156	93	2036	F	MIX	01.09.2006	summer	0		
5301	11/156	94	2240	F	MIX	01.03.2006	summer	0		
5302	11/156	95	2004	F	MIX	01.03.2006	summer	0		
5303	11/156	96	2319	F	MIX	01.09.2007	summer	0		
5304	11/156	97	2061	F	MIX	01.09.2006	summer	0		
5305	11/156	98	2017	F	MIX	01.09.2006	summer	0		
5306	11/156	99	2172	F	MIX	01.09.2006	summer	0		
5307	11/156	100	2225	F	MIX	01.09.2006	summer	0		
5308	11/156	101	2236	F	MIX	01.09.2006	summer	0		
5309	11/156	102	2463	F	MIX	01.03.2007	summer	0		
5310	11/156	103	2411	F	MIX	01.03.2007	summer	0		
5311	11/156	104	2051	F	MIX	01.09.2006	summer	0		
5312	11/156	105	2368	F	MIX	01.09.2006	summer	0		
5313	11/156	106	2335	F	MIX	01.09.2007	summer	0		
5314	11/156	107	2094	F	MIX	01.09.2006	summer	0		
5315	11/156	108	2256	F	MIX	01.09.2006	summer	0		
5316	11/156	109	2477	F	MIX	01.03.2007	summer	0		
5317	11/156	110	2362	F		01.09.2006	summer			
5318	11/156	111	2089	F	MIX	01.09.2006	summer	0		
5319	11/156	112	1703	F	MIX	01.04.2006	summer	0		
5320	11/156	113	2226	F	MIX	01.03.2006	summer	0		
5321	11/156	114	2085	F	MIX	01.09.2006	summer	0		
5322	11/156	115	2176	F	MIX	01.09.2006	summer	0		
5323	11/156	116	2304	F	MIX	01.09.2007	summer	0		
5324	11/156	117	2326	F	MIX	01.09.2007	summer	0		
5325	11/156	118	2038	F	MIX	01.09.2006	summer	0		
5326	11/156	119	2059	F	MIX	01.09.2006	summer	0		
5327	11/156	120	2265	F	MIX	01.03.2006	summer	0		
5328	11/156	121	2055	F	MIX	01.09.2006	summer	0		
5329	11/156	122	2132	F	MIX	01.09.2005	summer	0		
5330	11/156	123	2014	F	MIX	01.09.2005	summer	0		
5331	11/156	124	2111	F	MIX	01.03.2006	summer	0		
5332	11/156	125	106							
5333	11/156	126	2369	F	MIX	01.09.2006	summer	0		
5334	11/156	127	1954	F	MIX	01.03.2006	summer	0		
5335	11/156	128	2177	F	MIX	01.09.2006	summer	0		
5336	11/156	129	2423	F	MIX	01.03.2007	summer	0		
5337	11/156	130	2427	F	MIX	01.03.2007	summer	0		
5338	11/156	131	2080	F	MIX	01.09.2006	summer	0		
5339	11/156	132	WMBLUE60	F	MIX	01.02.2008	summer	0		
5340	11/156	133	2271	F	MIX	01.09.2006	summer	0		
5341	11/156	134	2104	F	MIX	01.09.2006	summer	0		
5342	11/156	135	1729	F	MIX	01.09.2006	summer	0		
5343	11/156	136	2079	F	MIX	01.09.2006	summer	0		
5344	11/156	137	2147	F	MIX	01.09.2006	summer	0		
5345	11/156	138	2486	F	MIX	01.03.2007	summer	0	0	0
5346	11/156	139	2251	F	MIX	01.09.2006	summer	0		
5347	11/156	140	2459	F	MIX	01.03.2007	summer	0		
5348	11/156	141	2046	F	MIX	01.09.2006	summer	0		
5349	11/156	142	2255	F	MIX	01.09.2006	summer	0		
5350	11/156	143	2166	F	MIX	01.09.2006	summer	0		
5351	11/156	144	2173	F	MIX	01.09.2006	summer	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
5352	11/156	145	2223	F	MIX	01.09.2006	summer	0		
5353	11/156	146	2389	F	MIX	01.03.2007	summer	0		
5354	11/156	147	2247	F	MIX	01.09.2006	summer	0		
5355	11/156	148	2239	F	MIX	01.03.2006	summer	0		
5356	11/156	149	2106	F	MIX	01.03.2006	summer	0		
5357	11/156	150	2073	F	MIX	01.09.2006	summer	0		
5358	11/156	151	2139	F	MIX	01.09.2006	summer	0		
5359	11/156	152	2270	F	MIX	01.03.2006	summer	0		
5360	11/156	153	2131	F	MIX	01.03.2006	summer	0		
5361	11/156	154	2217	F	MIX	01.09.2006	summer	0		
5362	11/156	155	1417	F	MIX	15.10.2004	summer	0		
5363	11/156	156	1858	F	MIX	01.03.2006	summer	0		
5364	11/156	157	2302	F	MIX	01.09.2007	summer	0		
5365	11/156	158	2378	F	MIX	01.03.2007	summer	0		
5366	11/156	159	2308	F	MIX	01.09.2007	summer	0		
5367	11/156	160	2821	F	MIX	01.09.2007	summer	0		
5368	11/156	161	2095	F	MIX	01.09.2006	summer	0		
5369	11/156	162	2065	F	MIX	01.03.2006	summer	0		
5370	11/156	163	2031	F	MIX	01.09.2006	summer	0		
5371	11/156	164	2140	F	MIX	01.09.2006	summer	0		
5372	11/156	165	2179	F	MIX	01.09.2006	summer	0		
5373	11/156	166	2103	F	MIX	01.09.2006	summer	0		
5374	11/156	167	2318	F	MIX	01.09.2007	summer	0		
5375	11/156	168	2234	F	MIX	01.09.2006	summer	0		
5376	11/156	169	2321	F	MIX	01.09.2007	summer	0		
5377	11/156	170	2323	F	MIX	01.09.2007	summer	0		
5378	11/156	171	1185	F	MIX	01.02.2003	summer	0		
5379	11/156	172	2155	F	MIX	01.09.2006	summer	0		
5380	11/156	173	2213	F	MIX	01.09.2006	summer	0		
5381	11/156	174	2107	F	MIX	01.09.2006	summer	0		
5382	11/156	175	2818	F	MIX	01.09.2007	summer	0		
5383	11/156	176	2454	F	MIX	01.03.2007	summer	0	0	1
5384	11/156	177	183							
5385	11/156	178	1944	F	MIX	01.04.2006	summer	0		
5386	11/156	179	2227	F	MIX	01.09.2006	summer	0		
5387	11/156	180	140							
5388	11/156	181	2461	F	MIX	01.03.2007	summer	0		
5389	11/156	182	2228	F	MIX	01.09.2006	summer	0		
5390	11/156	183	2201	F	MIX	01.09.2006	summer	0		
5391	11/156	184	2472	F	MIX	01.03.2007	summer	0	1	1
5392	11/156	185	2405	F	MIX	01.03.2007	summer	1	1	1
5393	11/156	186	2322	F	MIX	01.09.2007	summer	0	0	1
5394	11/156	187	2005	F	MIX	15.04.2006	summer	0		
5395	11/156	188	2820	F	MIX	01.09.2007	summer	0		
5396	11/156	189	2443	F	MIX	01.03.2007	summer	0	0	1
5397	11/156	190	2049	F	MIX	01.09.2006	summer	0	0	0
5398	11/156	191	2054	F	MIX	01.09.2006	summer	1	1	1
5399	11/156	192	2211	F	MIX	01.09.2006	summer	0		
5400	11/156	193	2468	F	MIX	01.03.2007	summer	0		
5401	11/156	194	2254	F	MIX	01.09.2006	summer	0		
5402	11/156	195	2492	F	MIX	01.03.2007	summer	0	0	1
5403	11/156	196	2229	F	MIX	01.09.2006	summer	0		
5404	11/156	197	2237	F	MIX	01.03.2006	summer	0		
5405	11/156	198	2425	F	MIX	01.03.2007	summer	0	1	1
5406	11/156	199	2407	F	MIX	01.03.2007	summer	0	0	1
5407	11/156	200	2037	F	MIX	01.09.2006	summer	0		
5408	11/156	201	2422	F	MIX	01.03.2007	summer	0		
5409	11/156	202	2160	F	MIX	01.09.2006	summer	0		
5410	11/156	203	2439	F	MIX	01.03.2007	summer	0		
5411	11/156	204	2118	F	MIX	01.03.2006	summer	0		
5412	11/156	205	2354	F	MIX	01.09.2007	summer	0		
5413	11/156	206	2130	F	MIX	01.09.2006	summer	0		
5414	11/156	207	2487	F	MIX	01.04.2007	autumn	0		
5415	11/156	208	1079	F	MIX	01.02.2002	summer	0		
5416	11/156	209	977	F	MIX	01.03.2001	summer	0		
5417	11/156	210	2200	F	MIX	01.09.2006	summer	0		
5418	11/156	211	2408	F	MIX	01.03.2007	summer	0	nt	1
5419	11/156	212	2491	F	MIX	01.03.2007	summer	0	0	1
5420	11/156	213	2060	F	MIX	01.09.2006	summer	0	0	1



FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
5421	11/156	214	2250	F	MIX	01.09.2006	summer	0	0	1
5422	11/156	215	2185	F	MIX	01.09.2006	summer	0		
5423	11/156	216	2205	F	MIX	01.03.2006	summer	1	1	1
5424	11/156	217	2273	F	MIX	01.03.2006	summer	0	0	0
5425	11/156	218	2187	F	MIX	01.09.2006	summer	0	0	1
5426	11/156	219	2170	F	MIX	01.09.2006	summer	0	0	1
5427	11/156	220	2074	F	MIX	01.09.2006	summer	0	0	1
5428	11/156	221	2490	F	MIX	01.03.2007	summer	0	0	1
5429	11/156	222	2222	F	MIX	01.03.2006	summer	0	0	1
5430	11/156	223	850	F	MIX	01.09.2000	summer	0		
5431	11/156	224	2027	F	MIX	01.09.2006	summer	0		
5432	11/156	225	1152	F	MIX	08.02.2003	summer	0	0	
5433	11/156	226	2113	F	MIX	01.09.2005	summer	0		
5434	11/156	227	2303	F	MIX	01.09.2007	summer	0		
5435	11/156	228	2342	F	MIX	01.09.2007	summer	0		
5436	11/156	229	2076	F	MIX	01.09.2006	summer	0		
5437	11/156	230	2489	F	MIX	01.03.2007	summer	0		
5438	11/156	231	2058	F	MIX	01.09.2006	summer	0		
5439	11/156	232	2018	F	MIX	01.09.2006	summer	0		
5440	11/156	233	2481	F	MIX	01.03.2007	summer	0		
5441	11/156	234	2218	F	MIX	01.09.2006	summer	0	1	0
5442	11/156	235	2367	F	MIX	01.09.2006	summer	0	1	1
5443	11/156	236	2110	F	MIX	01.03.2006	summer	0	0	0
5444	11/156	237	2498	F	MIX	01.03.2007	summer	0		
5445	11/156	238	2230	F	MIX	01.09.2006	summer	1	0	
5446	11/156	239	2209	F	MIX	01.03.2006	summer	0		
5447	11/156	240	2268	F	MIX	01.09.2006	summer	0	0	1
5448	11/156	241	2388	F	MIX	01.03.2007	summer	0	0	1
5449	11/156	242	2040	F	MIX	01.09.2006	summer	0	0	0
5450	11/156	243	2129	F	MIX	01.03.2006	summer	0		
5451	11/156	244	2075	F	MIX	01.09.2006	summer	0		
5452	11/156	245	2078	F	MIX	01.09.2006	summer	0		
5453	11/156	246	2148	F	MIX	01.09.2006	summer	0		
5454	11/156	247	2115	F	MIX	01.09.2005	summer	0		
5455	11/156	248	2068	F	MIX	01.09.2006	summer	0		
5456	11/156	249	2207	F	MIX	01.03.2006	summer	0		
5457	11/156	250	676	F	MIX	27.11.1998	summer	0		
5458	11/156	251	1695	F	MIX	01.02.2006	summer	0		
5459	11/156	252	2088	F	MIX	01.09.2006	summer	0		
5460	11/156	253	2238	F	MIX	01.09.2006	summer	0		
5461	11/156	254	2219	F	MIX	01.09.2005	summer	0		
5462	11/156	255	2181	F	MIX	01.09.2005	summer	1	1	1
5463	11/156	256	1953	F	MIX	01.03.2006	summer	0		
5464	11/156	257	2174	F	MIX	01.09.2006	summer	0		
5465	11/156	258	2033	F	MIX	01.09.2006	summer	0		
5466	11/156	259	2197	F	MIX	01.09.32006	summer	0		
5467	11/156	260	2262	F	MIX	01.09.2006	summer	0		
5468	11/156	261	2352	F	MIX	01.09.2007	summer	0		
5469	11/156	262	2193	F	MIX	01.09.2006	summer	0		
5470	11/156	263	2400	F	MIX	01.03.2007	summer	0		
5471	11/156	264	2397	F	MIX	01.03.2007	summer	0		
5472	11/156	265	2452	F	MIX	01.03.2007	summer	0		
5473	11/156	266	2206	F	MIX	01.09.2006	summer	0		
5474	11/156	267	2010	F	MIX	01.09.2006	summer	0		
5475	11/156	268	2146	F	MIX	01.03.2006	summer	0		
5476	11/156	269	2016	F	MIX	01.09.2006	summer	0		
5477	11/156	270	2473	F	MIX	01.03.2007	summer	0		
5478	11/156	271	2082	F	MIX	01.09.2006	summer	0		
5479	11/156	272	2067	F	MIX	01.03.2006	summer	0		
5480	11/156	273	2102	F	MIX	01.09.2006	summer	0		
5481	11/156	274	2248	F	MIX	01.09.2006	summer	0		
5482	11/156	275	2050	F	MIX	01.03.2006	summer	0		
5483	11/156	276	2824	F	MIX	01.09.2007	summer	0		
5484	11/156	277	2316	F	MIX	01.09.2007	summer	0		
5485	11/156	278	2451	F	MIX	01.03.2007	summer	0		
5486	11/156	279	2816	F	MIX	01.09.2007	summer	0		
5487	11/156	280	2150	F	MIX	01.09.2006	summer	0		
5488	11/156	281	2062	F	MIX	01.09.2005	summer	0		
5489	11/156	282	2480	F	MIX	01.03.2007	summer	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
5490	11/156	283	2242	F	MIX	01.09.2006	summer	0		
5491	11/156	284	2245							
5492	11/156	285	2090	F	MIX	01.09.2006	summer	0		
5493	11/156	286	2149	F	MIX	01.09.2006	summer	0		
5494	11/156	287	2136	F	MIX	01.09.2005	summer	0		
5495	11/156	288	1934	F	MIX	01.03.2006	summer	0		
5496	11/156	289	2261	F	MIX	01.09.2006	summer	0		
5497	11/156	290	2175	F	MIX	01.09.2006	summer	0		
5498	11/156	291	2358	F	MIX	01.09.2007	summer	0		
5499	11/156	292	2823	F	MIX	01.09.2007	summer	0		
5500	11/156	293	2077	F	MIX	01.09.2006	summer	0		
5501	11/156	294	2245	F	MIX	01.03.2006	summer	0		
5502	11/156	295	2340	F	MIX	01.09.2007	summer	0		
5503	11/156	296	2024	F	MIX	01.04.2006	summer	0		
5504	11/156	297	WMBLUE92	F	MIX	01.02.2008	summer	0		
5505	11/156	298	2030	F	MIX	01.09.2006	summer	0		
5506	11/156	299	2437	F	MIX	01.03.2007	summer	0		
5507	11/156	300	2456	F	MIX	01.03.2007	summer	0		
5508	11/156	301	2257	F	MIX	01.09.2006	summer	0	0	1
5509	11/156	302	2815	F	MIX	01.09.2007	summer	0	0	1
5510	11/156	303	2083	F	MIX	01.09.2006	summer	0	0	1
5511	11/156	304	2013	F	MIX	01.09.2006	summer	0	0	0
5512	11/156	305	2421	F	MIX	01.03.2007	summer	0	0	0
5513	11/156	306	2320	F	MIX	01.09.2007	summer	0	0	0
5514	11/156	307	2305	F	MIX	01.09.2007	summer	0	0	0
5515	11/156	308	2212	F	MIX	01.03.2006	summer	0		
5516	11/156	309	2009	F	MIX	01.03.2006	summer	0		
5517	11/156	310	2499	F	MIX	01.03.2007	summer	1	1	1
5518	11/156	311	2399	F	MIX	01.03.2007	summer	0	0	0
5519	11/156	312	2465	F	MIX	01.03.2007	summer	0	0	1
5520	11/156	313	2433	F	MIX	01.03.2007	summer	0	0	0
5521	11/156	314	2157	F	MIX	01.09.2006	summer	0	0	1
5522	11/156	315	2154	F	MIX	01.09.2006	summer	0	0	1
5523	11/156	316	1843	F	MIX	01.09.2006	summer	0	0	0
5524	11/156	317	2116	F	MIX	01.09.2006	summer	0		
5525	11/156	318	2447	F	MIX	01.03.2007	summer	0		
5526	11/156	319	2374	F	MIX	01.09.2006	summer	0		
5527	11/156	320	2398	F	MIX	01.03.2007	summer	1	0	
5528	11/156	321	2436	F	MIX	01.03.2007	summer	0	0	0
5529	11/156	322	2299	F	MIX	01.02.2007	summer	0	0	1
5530	11/156	323	2143	F	MIX	01.03.2006	summer	0		
5531	11/156	324	2191	F	MIX	01.09.2006	summer	0		
5532	11/156	325	2208	F	MIX	01.09.2006	summer	0		
5533	11/156	326	2011	F	MIX	01.09.2006	summer	0		
5534	11/156	327	2822	F	MIX	01.09.2007	summer	0		
5535	11/156	328	193 WHITE	BULL						
5536	11/156	329	7 ? YELLOW	BULL						
5537	11/156	330	4 ? YELLOW	BULL						
5538	11/156	331	58 WHITE	BULL						
5539	11/156	332	62 YELLOW	BULL						
5540	11/156	333	163 YELLOW	BULL						
5541	11/157	1	79 YELLOW	BULL						
5542	11/157	2	28 YELLOW	BULL						
5543	11/157	3	2736	F	MIX	01.08.2008	summer	0		
5544	11/157	4	2870	F	MIX	01.02.2007	summer	0		
5545	11/157	5	2508	F	MIX	01.09.2007	summer	0		
5546	11/157	6	2746	F	MIX	01.08.2008	summer	0		
5547	11/157	7	2515	F	MIX	01.09.2007	summer	0		
5548	11/157	8	2695			01.08.2008	summer			
5549	11/157	9	2537	F	MIX	01.09.2007	summer	0		
5550	11/157	10	2842	F	MIX	15.12.2007	summer	0		
5551	11/157	11	2120	F	MIX	01.09.2006	summer	0		
5552	11/157	12	2696	F	MIX	01.08.2008	summer	0		
5553	11/157	13	2812	F	MIX	01.08.2008	summer	0		
5554	11/157	14	2295	F	MIX	01.09.2006	summer	0		
5555	11/157	15	2766	F	MIX	01.08.2008	summer	0		
5556	11/157	16	2355	F		01.09.2007	summer			
5557	11/157	17	2787	F	MIX	01.08.2008	summer	0		
5558	11/157	18	2837	F	MIX	15.12.2007	summer	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
5559	11/157	19	2782	F	MIX	01.08.2008	summer	0		
5560	11/157	20	2755	F	MIX	01.08.2008	summer	0		
5561	11/157	21	2381	F	MIX	01.03.2007	summer	0		
5562	11/157	22	2126	F	MIX	01.03.2006	summer	0		
5563	11/157	23	2704	F	MIX	01.08.2008	summer	0		
5564	11/157	24	2785	F	MIX	01.08.2008	summer	0		
5565	11/157	25	2678	F	MIX	01.09.2007	summer	0		
5566	11/157	26	2777	F	MIX	01.08.2008	summer	0		
5567	11/157	27	2686	F	MIX	01.09.2007	summer	0		
5568	11/157	28	2830	F	MIX	15.12.2007	summer	0		
5569	11/157	29	2740	F	MIX	01.08.2008	summer	0		
5570	11/157	30	2808	F	MIX	01.08.2008	summer	0		
5571	11/157	31	2853	F	MIX	01.08.2008	summer	0		
5572	11/157	32	2708	F	MIX	01.08.2008	summer	0		
5573	11/157	33	2813	F	MIX	01.08.2008	summer	0		
5574	11/157	34	2734	F	MIX	01.08.2008	summer	0		
5575	11/157	35	2599	F	MIX	01.09.2007	summer	0		
5576	11/157	36	2836	F	MIX	15.12.2007	summer	0		
5577	11/157	37	2384	F	MIX	01.02.2007	summer	0		
5578	11/157	38	2786	F	MIX	01.08.2008	summer	0		
5579	11/157	39	2671	F	MIX	01.09.2007	summer	0		
5580	11/157	40	2805/2865							
5581	11/157	41	2549	F	MIX	01.09.2007	summer	0		
5582	11/157	42	2806	F	MIX	01.08.2008	summer	0		
5583	11/157	43	2851	F	MIX	01.08.2008	summer	0		
5584	11/157	44	2333	F	MIX	01.09.2007	summer	0		
5585	11/157	45	2287	F	MIX	04.12.2007	summer	0		
5586	11/157	46	2848	F	MIX	01.02.2007	summer	0		
5587	11/157	47	2769	F	MIX	01.08.2008	summer	0		
5588	11/157	48	2659	F	MIX	01.09.2007	summer	0		
5589	11/157	49	2784	F	MIX	01.08.2008	summer	0		
5590	11/157	50	2496	F	MIX	01.04.2007	summer	0	0	0
5591	11/157	51	147 YELLOW BULL						1	0
5592	11/157	52	2511	F	MIX	01.09.2007	summer	0	0	0
5593	11/157	53	2749			01.09.2007	summer	1	0	0
5594	11/157	54	2541	F	MIX	01.09.2007	summer	0	0	0
5595	11/157	55	2346	F	MIX	01.09.2007	summer	0	0	0
5596	11/157	56	2601	F	MIX	01.09.2007	summer	0	1	1
5597	11/157	57	2530	F	MIX	01.09.2007	summer	0	0	0
5598	11/157	58	2512	F	MIX	01.09.2007	summer	0		
5599	11/157	59	2127	F	MIX	01.09.2006	summer	0		
5600	11/157	60	2548	F	MIX	01.09.2007	summer	0		
5601	11/157	61	2445	F	MIX	01.03.2007	summer	0		
5602	11/157	62	2278	F	MIX	01.09.2007	summer	0		
5603	11/157	63	2687	F	MIX	01.08.2008	summer	0		
5604	11/157	64	2414	F	MIX	01.04.2007	summer	0		
5605	11/157	65	2868	F	MIX	01.02.2008	summer	0		
5606	11/157	66	2020	F	MIX	01.04.2006	summer	0		
5607	11/157	67	2677	F	MIX	01.08.2008	summer	0		
5608	11/157	68	2289	F	MIX	01.09.2007	summer	0		
5609	11/157	69	2204	F	MIX	01.09.2006	summer	0		
5610	11/157	70	2280	F	MIX	01.09.2007	summer	0		
5611	11/157	71	2866	F	MIX	01.02.2008	summer	0		
5612	11/157	72	2635	F	MIX	01.09.2007	summer	0		
5613	11/157	73	2336	F	MIX	01.09.2007	summer	0		
5614	11/157	74	2579	F	MIX	01.09.2007	summer	0		
5615	11/157	75	2478	F	MIX	01.03.2007	summer	0		
5616	11/157	76	2283	F	MIX	01.09.2007	summer	0		
5617	11/157	77	2668	F	MIX	01.09.2007	summer	0		
5618	11/157	78	2582	F	MIX	01.09.2007	summer	0		
5619	11/157	79	2260	F	MIX	01.03.2006	summer	0		
5620	11/157	80	2590	F	MIX	01.09.2007	summer	0		
5621	11/157	81	2538	F	MIX	01.09.2007	summer	0		
5622	11/157	82		F	MIX	01.09.2007	summer	1	1	1
5623	11/157	83	2828	F	MIX	15.12.2007	summer	0		
5624	11/157	84	2758	F	MIX	01.08.2008	summer	0		
5625	11/157	85	2292	F	MIX	05.12.2007	summer	0		
5626	11/157	86	2834	F	MIX	15.12.2007	summer	0		
5627	11/157	87	2570	F	MIX	01.09.2007	summer	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
5628	11/157	88	2602	F	MIX	01.09.2007	summer	0		
5629	11/157	89	2514	F	MIX	01.09.2007	summer	0		
5630	11/157	90	2552	F	MIX	01.09.2007	summer	0		
5631	11/157	91	2679	F	MIX	01.08.2008	summer	0		
5632	11/157	92	2605	F	MIX	01.09.2007	summer	0		
5633	11/157	93	1961	F	MIX	01.09.2006	summer	0		
5634	11/157	94	WMB94	F		01.02.2008	summer			
5635	11/157	95	2519	F	MIX	01.09.2007	summer	0		
5636	11/157	96	2629	F	MIX	01.09.2007	summer	0		
5637	11/157	97	2581	F	MIX	01.09.2007	summer	0		
5638	11/157	98	2330	F	MIX	01.09.2007	summer	0		
5639	11/157	99	2669	F	MIX	01.09.2007	summer	0		
5640	11/157	100	2502	F	MIX	01.09.2007	summer	0		
5641	11/157	101	2544	F	MIX	01.09.2007	summer	0		
5642	11/157	102	2572	F	MIX	01.09.2007	summer	0		
5643	11/157	103	2773	F	MIX	01.08.2008	summer	0		
5644	11/157	104	25052							
5645	11/157	105	2509	F	MIX	01.09.2007	summer	0		
5646	11/157	106	2733	F	MIX	01.08.2008	summer	0		
5647	11/157	107	2807	F	MIX	01.08.2008	summer	0		
5648	11/157	108	2057	F	MIX	01.09.2006	summer	0		
5649	11/157	109	2353	F	MIX	01.09.2007	summer	0		
5650	11/157	110	2402	F	MIX	01.04.2007	summer	0		
5651	11/157	111	2675	F	MIX	01.09.2007	summer	0		
5652	11/157	112	2692	F	MIX	01.08.2008	summer	0		
5653	11/157	113	WMB89	F		01.02.2008	summer			
5654	11/157	114	2087	F	MIX	01.09.2006	summer	0		
5655	11/157	115	2471	F	MIX	01.03.2007	summer	0		
5656	11/157	116	2533	F	MIX	01.09.2007	summer	0		
5657	11/157	117	2735	F	MIX	01.08.2008	summer	0		
5658	11/157	118	2794	F	MIX	01.08.2008	summer	0		
5659	11/157	119	2580	F	MIX	01.09.2007	summer	0		
5660	11/157	120	2035	F	MIX	01.03.2006	summer	0		
5661	11/157	121	2535	F	MIX	01.09.2007	summer	0		
5662	11/157	122	2554	F	MIX	01.09.2007	summer	0		
5663	11/157	123	2618	F	MIX	01.09.2007	summer	0		
5664	11/157	124	2409	F	MIX	01.04.2007	summer	0		
5665	11/157	125	2781	F	MIX	01.08.2008	summer	0		
5666	11/157	126	2754	F	MIX	01.08.2008	summer	0		
5667	11/157	127	2829	F	MIX	15.12.2007	summer	0		
5668	11/157	128	2732	F	MIX	01.08.2008	summer	0		
5669	11/157	129	2296	F	MIX	01.09.2006	summer	0		
5670	11/157	130	2757	F	MIX	01.08.2008	summer	0		
5671	11/157	131	2288	F	MIX	01.09.2007	summer	0		
5672	11/157	132	2730	F	MIX	01.08.2008	summer	0		
5673	11/157	133	7	F	MIX	01.09.2008	summer	0		
5674	11/157	134	2779	F	MIX	01.08.2008	summer	0		
5675	11/157	135	2719			01.08.2007	summer			
5676	11/157	136	2727	F	MIX	01.08.2008	summer	0		
5677	11/157	137	2575	F	MIX	01.09.2007	summer	0		
5678	11/157	138	2571	F	MIX	01.09.2007	summer	0		
5679	11/157	139	2286	F	MIX	01.09.2007	summer	0		
5680	11/157	140	2817	F	MIX	01.09.2007	summer	0		
5681	11/157	141	2455	F	MIX	01.03.2007	summer	0		
5682	11/157	142	1878	F	MIX	01.03.2006	summer	0		
5683	11/157	143	2298	F	MIX	01.09.2007	summer	0		
5684	11/157	144	2660	F	MIX	31.12.?	summer	0		
5685	11/157	145	2772	F	MIX	01.08.2008	summer	0		
5686	11/157	146	2792	F	MIX	01.08.2008	summer	0		
5687	11/157	147	2761	F	MIX	01.08.2008	summer	0		
5688	11/157	148	2799	F	MIX	01.08.2008	summer	0		
5689	11/157	149	2774	F	MIX	01.08.2008	summer	0		
5690	11/157	150	2069	F	MIX	01.03.2006	summer	0		
5691	11/157	151	2745	F	MIX	01.08.2008	summer	0		
5692	11/157	152	1 WHITE	BULL						
5693	11/157	153	2202	F	MIX	01.09.2006	summer	0		
5694	11/157	154	2810	F	MIX	01.08.2008	summer	0		
5695	11/157	155	2811	F	MIX	01.08.2008	summer	0		
5696	11/157	156	2759	F	MIX	01.08.2008	summer	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
5697	11/157	157	WMB84	F		01.02.2008	summer			
5698	11/157	158	2698	F	MIX	01.08.2008	summer	0		
5699	11/157	159	2699	F	MIX	01.08.2008	summer	0		
5700	11/157	160	2624	F	MIX	01.09.2007	summer	0		
5701	11/157	161	2846	F	MIX	15.12.2007	summer	0		
5702	11/157	162	2587	F	MIX	01.09.2007	summer	0		
5703	11/157	163	696	F		01.08.2008	summer			
5704	11/157	164	2119	F	MIX	01.09.2006	summer	0		
5705	11/157	165	2814	F	MIX	01.09.2008	summer	0		
5706	11/157	166	2518	F	MIX	01.09.2007	summer	0		
5707	11/157	167	2701	F	MIX	01.08.2008	summer	0	1	0
5708	11/157	168	2742	F	MIX	01.08.2008	summer	0	0	0
5709	11/157	169	2718	F	MIX	01.08.2008	summer	0	0	0
5710	11/157	170	2276	F	MIX	01.09.2007	summer	0	0	0
5711	11/157	171	2424	F	MIX	01.03.2007	summer	1	0	
5712	11/157	172	2798	F	MIX	01.08.2008	summer	0	0	0
5713	11/157	173	2716	F	MIX	01.08.2008	summer	0	0	0
5714	11/157	174	2765			01.08.2008	summer	0	0	0
5715	11/157	175	2654	F	MIX	01.09.2007	summer	0	0	0
5716	11/157	176	2623	F	MIX	01.09.2007	summer	1	1	1
5717	11/157	177	2802	F	MIX	01.08.2008	summer	0	0	0
5718	11/157	178	2874	F	MIX	01.09.2007	summer	0	0	0
5719	11/157	179	2564	F	MIX	01.09.2007	summer	0		
5720	11/157	180	2583	F	MIX	01.09.2007	summer	0		
5721	11/157	181	2694	F	MIX	01.08.2008	summer	0		
5722	11/157	182	2771	F	MIX	01.08.2008	summer	0		
5723	11/157	183	2690	F	MIX	01.08.2008	summer	0		
5724	11/157	184	2854	F	MIX	01.08.2008	summer	0		
5725	11/157	185	194 WHITE	BULL						
5726	11/157	186	2831	F	MIX	15.12.2007	summer	0		
5727	11/157	187	WMB54	F		01.02.2008	summer			
5728	11/157	188	2691	F	MIX	01.08.2008	summer	0		
5729	11/157	189	2855	F	MIX	01.02.2008	summer	0		
5730	11/157	190	2756	F	MIX	01.08.2008	summer	0		
5731	11/157	191	2809	F	MIX	01.08.2008	summer	0		
5732	11/157	192	2652	F	MIX	01.09.2007	summer	0		
5733	11/157	193	2529	F	MIX	01.09.2007	summer	0		
5734	11/157	194	2729	F	MIX	01.08.2008	summer	0		
5735	11/157	195	2844	F	MIX	15.12.2007	summer	0		
5736	11/157	196	2753	F	MIX	01.08.2008	summer	0		
5737	11/157	197	2826	F	MIX	15.12.2007	summer	0		
5738	11/157	198	2717	F	MIX	01.08.2008	summer	0		
5739	11/157	199	2791	F	MIX	01.08.2008	summer	0		
5740	11/157	200	2752	F	MIX	01.08.2008	summer	0		
5741	11/157	201	145	F		11.04.1997	spring			
5742	11/157	202	2713	F	MIX	01.08.2008	summer	0		
5743	11/157	203	2835	F	MIX	15.12.2007	summer	0		
5744	11/157	204	2655	F	MIX	01.09.2007	summer	0		
5745	11/157	205	2693	F	MIX	01.08.2008	summer	0		
5746	11/157	206	2827	F		15.12.2007	summer			
5747	11/157	207	2720			01.08.2008	summer			
5748	11/157	208	2545	F	MIX	01.09.2007	summer	0		
5749	11/157	209	2513	F	MIX	01.09.2007	summer	0		
5750	11/157	210	2796	F	MIX	01.08.2008	summer	0		
5751	11/157	211	783	F		14.10.2008	summer			
5752	11/157	212	2763	F	MIX	01.08.2008	summer	0		
5753	11/157	213	2707	F	MIX	01.08.2008	summer	0		
5754	11/157	214	67 YELLOW	BULL						
5755	11/157	215	2728	F	MIX	01.08.2008	summer	0		
5756	11/157	216	2542	F	MIX	01.09.2007	summer	0		
5757	11/157	217	2715	F	MIX	01.08.2008	summer	0		
5758	11/157	218	2801	F	MIX	01.08.2008	summer	0		
5759	11/157	219	WMB69	F		01.02.2008	summer			
5760	11/157	220	2697	F	MIX	01.08.2008	summer	0		
5761	11/157	221	2555	F	MIX	01.09.2007	summer	0		
5762	11/157	222	WMB122	F		01.02.2008	summer			
5763	11/157	223	2750	F	MIX	01.08.2008	summer	0		
5764	11/157	224	2747	F	MIX	01.08.2008	summer	0		
5765	11/157	225	2804	F	MIX	01.08.2008	summer	0		

FV #	SVC #	Key list	Ear Tag	Sex	Age	DOB	Group	ELISA	Faecal tests	
									Culture	PCR - 2 replicates
5766	11/157	226	2567	F	MIX	01.09.2007	summer	0		
5767	11/157	227	2551	F	MIX	01.09.2007	summer	0		
5768	11/157	228	2760	F	MIX	01.08.2008	summer	0		
5769	11/157	229	2852	F	MIX	01.08.2008	summer	0		
5770	11/157	230	2770	F	MIX	01.08.2008	summer	0		
5771	11/157	231	2714	F	MIX	01.08.2008	summer	0		
5772	11/157	232	1001	F	MIX	30.11.2008	summer	0		
5773	11/157	233	2275	F	MIX	01.09.2007	summer	0		
5774	11/157	234	2565	F	MIX	01.09.2007	summer	0		
5775	11/157	235	2231	F	MIX	01.06.2009	summer	0		
5776	11/157	236	149 YELLOW	BULL						
5777	11/157	237	53 WHITE	BULL						
5778	11/157	238	2700	F	MIX	01.08.2008	summer	0		
5779	11/157	239	2703	F	MIX	01.08.2008	summer	0		
5780	11/157	240	2731	F	MIX	01.08.2008	summer	0		
5781	11/157	241	2790	F	MIX	01.08.2008	summer	0		
5782	11/157	242	2643	F	MIX	01.09.2007	summer	0		
5783	11/157	243	2788	F	MIX	01.08.2008	summer	0		
5784	11/157	244	W5MB78	F		01.02.2008	summer			
5785	11/157	245	2764	F	MIX	01.08.2008	summer	0		
5786	11/157	246	2052	F	MIX	01.09.2006	summer	0		
5787	11/157	247	2741	F	MIX	01.08.2008	summer	0		
5788	11/157	248	2647	F	MIX	01.09.2007	summer	0		
5789	11/157	249	2453	F	MIX	01.03.2007	summer	0		
5790	11/157	250	2767	F	MIX	01.08.2008	summer	0		
5791	11/157	251	2418	F	MIX	01.03.2007	summer	0		
5792	11/157	252	2856	F	MIX	01.02.2008	summer	0		
5793	11/157	253	2568	F	MIX	01.09.2007	summer	0		
5794	11/157	254	2789	F	MIX	01.08.2008	summer	0		
5795	11/157	255	2724	F	MIX	01.08.2008	summer	0		
5796	11/157	256	2497	F	MIX	01.03.2007	summer	0		
5797	11/157	257	2532	F	MIX	01.09.2007	summer	0		
5798	11/157	258	2523	F	MIX	01.09.2007	summer	0		
5799	11/157	259	2504	F	MIX	01.09.2007	summer	0		
5800	11/157	260	2560	F	MIX	01.09.2007	summer	0		
5801	11/157	261	2712	F	MIX	01.08.2008	summer	0		
5802	11/157	262	2800	F	MIX	01.08.2008	summer	0		
5803	11/157	263	2743	F	MIX	01.08.2008	summer	0		
5804	11/157	264	2656	F	MIX	01.09.2007	summer	0		
5805	11/157	265	2476	F	MIX	01.03.2007	summer	0		
5806	11/157	266	2711	F	MIX	01.08.2008	summer	0		
5807	11/157	267	WMB72	F		01.02.2008	summer			
5808	11/157	268	2795	F	MIX	01.08.2008	summer	0		
5809	11/157	269	2726	F	MIX	01.08.2008	summer	0		
5810	11/157	270	2689	F	MIX	01.08.2008	summer	0		
5811	11/157	271	2528	F	MIX	01.09.2007	summer	0		
5812	11/157	272	2313	F	MIX	01.09.2007	summer	0		
5813	11/157	273	WMB20	F		01.02.2008	summer			
5814	11/157	274	2277	F	MIX	01.09.2007	summer	0		
5815	11/157	275	2748	F	MIX	01.08.2008	summer	0		
5816	11/157	276	2751	F	MIX	01.08.2008	summer	0		
5817	11/157	277	2778	F	MIX	01.08.2008	summer	0		
5818	11/157	278	2510	F	MIX	01.09.2007	summer	0		
5819	11/157	279	WMB25	F		01.02.2008	summer			
5820	11/157	280	2029	F	MIX	01.09.2006	summer	0	0	0
5821	11/157	281	2625	F	MIX	01.09.2007	summer	0	0	0
5822	11/157	282	2467	F	MIX	01.04.2007	summer	0	0	0
5823	11/157	283	2744	F	MIX	01.08.2008	summer	0	0	