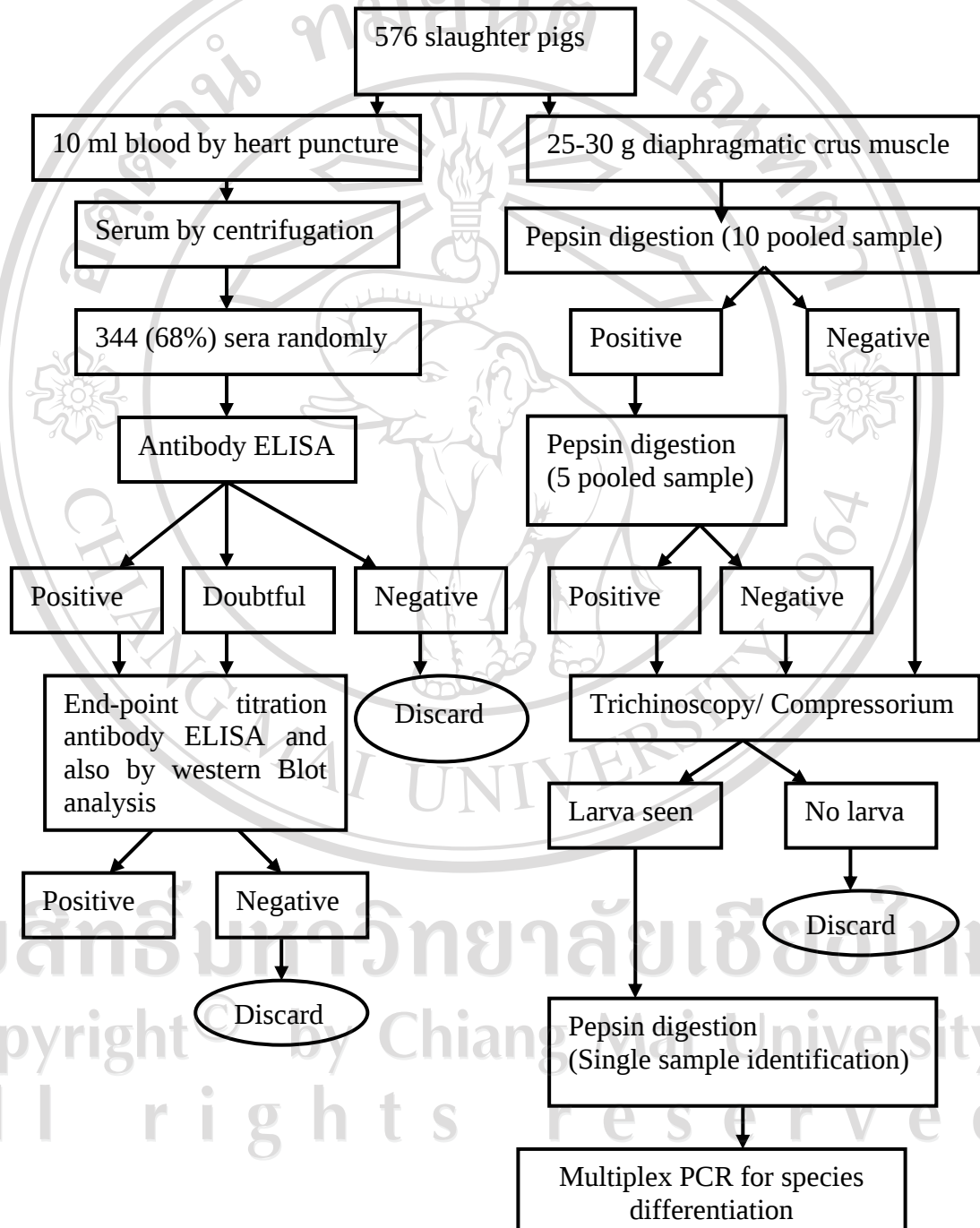


APPENDICES

Appendix A: The flow chart of laboratory techniques



Appendix B: Pig producer questionnaire survey

Date of Survey:.....

Farmer name: Age of farmer:

Farmer's address: Telephone:

Farm geographical location:

Mountain region

☐
☐
☐

Hills region

Plain region

Education level:

Date of farm establishment:

Number of people involved in farm:

Pigs stocking density:

Training in pig husbandry

Yes

☐

No

☐

Size of pig production:

Household raising

Small and Medium

Intensive

☐
☐
☐

Pig production system:

Free ranging

Mixed

Indoor

☐
☐
☐

Rodent control program:

Yes

☐

No

☐

Wildlife access to farm:

Yes

☐

No

☐

Possibilities to cannibalism:

Target of pig production:

Piglet producing

Fattening purpose

Mixed

☐
☐
☐

Pigs purchase from where:

Commercial farm

☐

Non commercial farm

☐

Backward farm

☐

Pig breeding for raising:

Local

☐

Exotic breeds

☐

cross breed

☐

All types of breeds

☐

Hygiene barriers exist in farm for persons entering the farm:

Cooking feed before providing to pig:

Types of feed:

Ration feed

☐

leftovers (hotel, home)

☐

Mixing of ration and leftovers

☐

Traditional

☐

Garbage dumping in vicinity:

Birds access from dumping area to the farm:

Waste management:

Anaerobic

☐

Aerobic

☐

Anaerobic+ Aerobic

☐

Direct outlet to outside

☐

No facilities

☐

Information about pork borne disease:

Yes

☐

No

☐

Knowledge about *Trichinella* control program

Yes

☐

No

☐

Pork consumption habit:

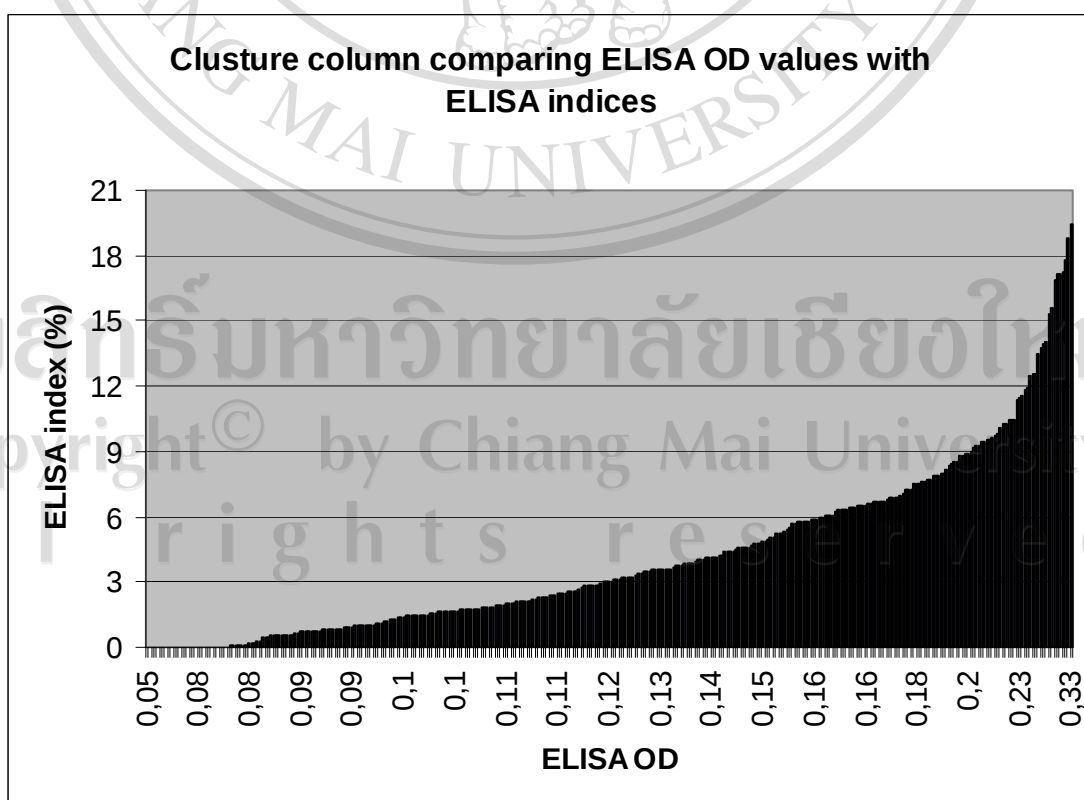
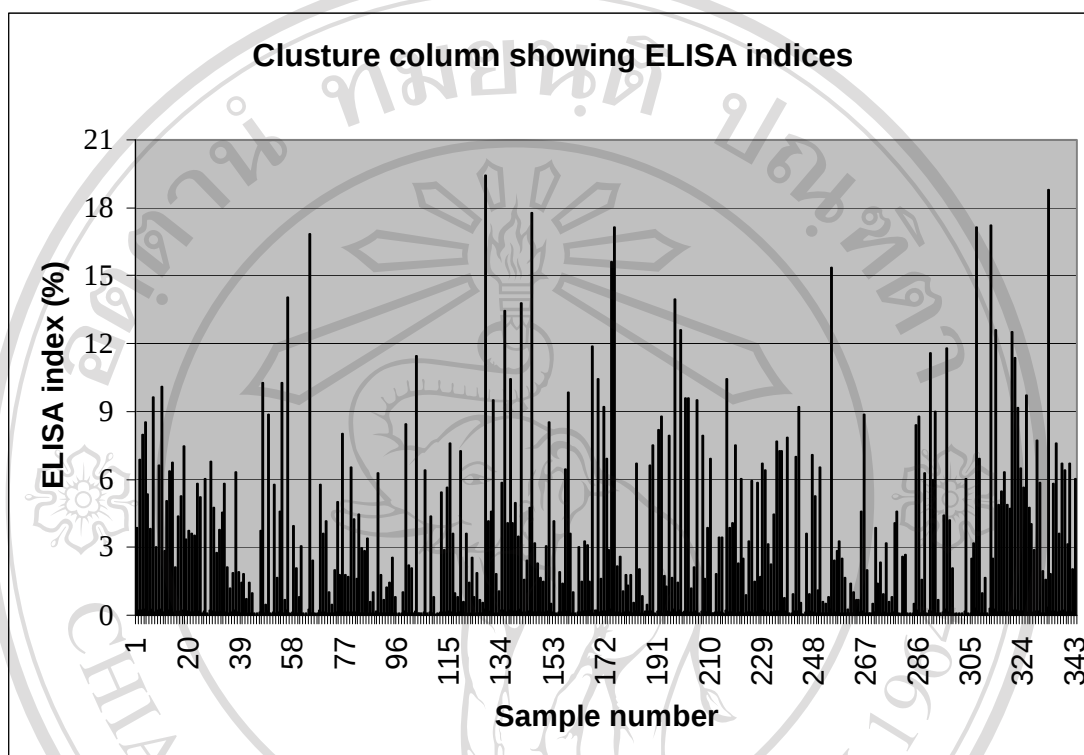
Cooked

☐

Uncooked/Mixed

☐

Appendix C: ELISA reading of serological samples



Appendix D: Specific and non specific band patterns of tested sera and control sera analyzed through western blot

Ladder	NS																NS				kDa range
kDa	PC	NC	178	92	82	213	191	202	264	269	378	376	PC	NC	443	540	535	542	551	565	
409.2	+	neg.	neg.	neg.	+	neg.	+	neg.	+	neg.	+	neg.	neg.	neg.	+	neg.	+	+	+	+	341,5 - 476,9
133.1	neg.	neg.	neg.	neg.	neg.	neg.	+	neg.	+	neg.	+	neg.	neg.	neg.	+	neg.	+	neg.	+	neg.	132 - 134,2
102.0	+	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	+	neg.	neg.	neg.	neg.	neg.	neg.	neg.	101,5 - 102,4
89.4	neg.	neg.	neg.	neg.	+	neg.	+	neg.	neg.	neg.	+	neg.	neg.	neg.	+	neg.	+	+	+	+	88,4 - 90,4
72.3	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	+	neg.	neg.	neg.	+	neg.	72.3
66.1	+	neg.	neg.	neg.	neg.	neg.	+	neg.	neg.	neg.	neg.	neg.	+	neg.	neg.	neg.	neg.	neg.	neg.	neg.	65,4 - 66,9
62.0	+	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	+	neg.	+	neg.	neg.	neg.	+	neg.	61,5 - 62,5
55.2	+	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	+	neg.	neg.	neg.	neg.	neg.	neg.	neg.	54,7 - 55,8
54.0	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	+	neg.	neg.	neg.	neg.	neg.	54
50.5	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	+	neg.	neg.	neg.	neg.	neg.	+	neg.	50.5
46.9	+	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	+	neg.	neg.	neg.	neg.	neg.	neg.	neg.	46,7 - 47,2
45.1	neg.	neg.	neg.	neg.	neg.	neg.	+	neg.	neg.	neg.	neg.	neg.	neg.	neg.	+	neg.	neg.	neg.	neg.	neg.	45 - 45,2
44.0	neg.	neg.	neg.	neg.	neg.	neg.	+	neg.	+	neg.	neg.	neg.	neg.	neg.	+	neg.	neg.	neg.	+	+	43,3 - 44,7
43.0	+	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	+	neg.	neg.	+	neg.	neg.	neg.	neg.	neg.	neg.	neg.	42,7 - 43,2
39.2	+	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	+	neg.	neg.	neg.	neg.	neg.	+	neg.	38,8 - 39,7
37.9	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	+	neg.	37.9

NS = Non specific, PC = Positive control, NC = Negative control, kDa = Kilodalton

Copyright© by Chiang Mai University
All rights reserved

DECLARATION

I, the under signed, declared that the thesis is my original work and has not been presented for a degree in any university.

Name: Santosh Kumar Karn

Signature:

Date of submission:.....

20th Sep. 2007

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่
Copyright© by Chiang Mai University
All rights reserved

CURRICULUM VITAE

Name: Santosh Kumar Karn
Date of Birth: 11th October, 1975
Address: Malangwa, Ward no- 2
 District – Sarlahi, Nepal
 Home: +977-46-520291 Mobile: +977-9841-289951
 Office: +977-1-6630762
 Email: santoshkarn@yahoo.com, santoshkarn@hotmail.com

Educational Background:

Bachelor of Veterinary Sciences and Animal Husbandry (B.V.Sc & A.H), Tribhuvan University (T.U) Nepal, 1995-2001. (First division- 71.2%)
 Intermediate of Science (I. Sc), Bihar Intermediate Education Council (B.I.E.C), India, 1992-1994. (First division- 67%)
 School Leaving Certificate (S.L.C), S.M.K.D.S.School, HMG Board, Nepal, 1981-1991. (First division- 66.43%)

Scholarships:

Thailand Government Scholarship Award (2005-2007)
 Tribhuvan University Stipend for Merit Candidate (1996-2001)

Working experiences:

Lecturer, Himalayan College of Agriculture Sciences and Technology (HICAST), Purvanchal University, Nepal, 2002- to till date.

Meat inspection training, Directorate of Livestock Services Training and Extension, Department of Livestock Services, Nepal, 23 June, 2004- 8 July, 2004

Publications:

Karn, S., Singh, S., Bhandari, S., Bhattarai, R.K. (2003): A study on the effect of iron supplementation in preweaning piglets. *Nepalese Veterinary Journal* 27, 6-11.

Karn, S. (2003): Overview of rabies control program-development through agriculture revolution. *HICAST Newsletter* 4.

Karn, S. (2004): Environmental mastitis- an economic threat to Nepalese economy. *Green Field Journal of Agriculture, Veterinary and Food Sciences* 2 (2), 22.

Karn, S. (2005): Laboratory manual of milk and milk hygiene. HICAST Publication.

Karn, S. (2001): Prevalence of internal parasitic infection and efficacy of various anthelmintic drugs in dogs of Kathmandu Valley. Institute of Agriculture and Animal Sciences (IAAS), Tribhuvan University. Undergraduate thesis.