



New Zealand Veterinary Pathology, Ltd.

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EQUINE & PRODUCTION ANIMAL Name of Test	NZVP 2008-2009 Turnaround Time	NZVP 2008-2009 Sample Type
PROFILES		
Equine Sick Animal Panel AGR, Albumin, AST, Bilirubin, Calcium, CK, Chloride, Creatinine, GLDH, GGT, Globulin, Magnesium, Phosphate, Potassium, Total Protein, Urea Plus CBC + FIB	Same Day Same Day	Serum EDTA
Equine Fitness Panel 1 AGR, Albumin, AST, Bicarb, CK, GGT, Globulin, Potassium, Sodium, Total Protein Plus ABC + ESR	Same Day Same Day	Serum EDTA
Equine Fitness Panel 2 AGR, Albumin, AST, Bicarb, CK, GGT, Globulin, Potassium, Sodium, Total Protein Plus ABC + FIB	Same Day Same Day	Serum EDTA
Equine Fitness Panel 3 AGR, Albumin, AST, Bicarb, CK, GGT, Globulin, Potassium, Sodium, Total Protein Plus ABC + FIB + ESR	Same Day Same Day	Serum EDTA
Production Sick Animal Panel CK, AST, GDH, GGT, TBil, TP, Alb, Glob, Urea, Creat, PO4, Mg, Ca, Cl, BOH, Na, K Plus CBC + FIB	Same Day Same Day	Serum EDTA
Liver Panel GDH, GGT, TBil, TP, Alb, Glob, A:G ratio	Same Day	Serum
Metabolic Panel Alb, Creat, PO4, Mg, Ca, BOH	Same Day	Serum
Recumbent Cow Panel (Full) CK, AST, GDH, GGT, TBil, TP, Alb, Glob, Urea, Creat, PO4, BOH, Mg, Ca, Recovery Prog. Includes CBC + FIB	Same Day	Serum EDTA
Recumbent Cow Panel (Prognosis) CK, AST, GDH, Urea, Recovery Prog.	Same Day	Serum
BIOCHEMISTRY		
Albumin	Same Day	Serum
ALP	Same Day	Serum
AST	Same Day	Serum
Bicarbonate	Same Day	Serum
Bile acids	1-2 days	Serum
Blood Selenium	Next Day	EDTA
BOH butyrate	Same Day	Serum
Calcium	Same Day	Serum
Chloride	Same Day	Serum
CK	Same Day	Serum
Creatinine	Same Day	Serum
Electrophoresis	2-3 days	Serum
Ferroxidase (Bovine, Cervine, Caprine)	Same Day	Serum or Heparin
Fractional excretion (serum + urine) Na + K Single	Same Day Same Day	Serum + Urine Serum + Urine
GDH	Same Day	Serum
GGT	Same Day	Serum
Glucose (fluoride oxalate)	Same Day	Flurox
GPx (Bovine only)	Next Day	EDTA
Iron screen	1-2 days	Serum

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Magnesium (urine)	Same Day	Urine
NEFA	Same Day	Serum
Pepsinogen	Same Day	Serum
Phosphate	Same Day	Serum
Potassium	Same Day	Serum
Serum copper/Plasma copper	Next Day	Serum or Heparin
Serum Selenium	Next Day	Serum
Sodium (serum)	Same Day	Serum
Sodium (urine)	Same Day	Urine
T4 (Total thyroxine)	Same Day	Serum
Total Bilirubin	Same Day	Serum
Total Protein	Same Day	Serum
Triglycerides	2 days	Serum
Urea	Same Day	Serum
Vit E (serum)	5-10 days	Serum
Vitamin B12	Next Day	Serum
Zinc	Next Day	Serum
LIVER		
Asure liver collection fee	n/a	n/a
Copper	Next Day	Liver
Selenium	Next Day	Liver
Vitamin B12	Next Day	Liver
Zinc	Next Day	Liver
TRACE ELEMENT PROFILES (suggested profiles only)		
Growing Cattle Fx (6), Se (4), GGT (10), Alb (5), Pep (5), B12 (5)	Next Day	Serum
Adult Cattle Fx (6), Se (4), GGT (10), Alb (5), Mg (10), BOH (10)	Next Day	Serum
Periparturient Cattle Fx (6), Se (4), B12 (5), Ca (10), Mg (10), BOH/NEFA (10)	Next Day	Serum
Deer Fx (10), Blood Se (6), GGT (10), Alb (5)	Next Day	Serum & EDTA
Sheep Blood Se (3), GGT (10), Alb (5), Mg (10), B12 (10)	Next Day	Serum & EDTA
Goats Serum Fx (6), Blood Se (3), GGT (5), Alb (5), Mg (10), B12 (5)	Next Day	Serum & EDTA
PASTURE ANALYSIS		
Basic Pasture Profile Nitrogen, Phosphorus, Potassium, Sulphur, Calcium, Magnesium, Sodium, Iron, Manganese, Zinc, Copper, Boron	1-2 weeks	500gram sample
Mixed Pasture Profile Basic Pasture Profile plus Molybdenum, Cobalt and Selenium	1-2 weeks	500gram sample
Complete Pasture Profile Mixed Pasture Profile plus Crude Protein and Metabolisable Energy. Includes a Clover only - Basic Profile plus Molybdenum.	1-2 weeks	500gram sample
Clover Only Profile Basic Pasture Profile plus Molybdenum.	1-2 weeks	500gram sample
Spring Pasture Profile Mixed Pasture Profile plus Crude Protein, Metabolisable Energy and Chloride. Includes an Animal Dietary Mineral Balance report.	1-2 weeks	500gram sample
Pasture Feed Quality Profile Dry Matter, Crude Protein, Ash, Acid Detergent Fibre, Neutral Detergent Fibre, Soluble Sugars, Metabolisable Energy and Digestibility.	1-2 weeks	1kg sample
Extended Pasture Feed Quality Profile Spring Pasture Profile plus Pasture Feed Quality Profile.	1-2 weeks	1kg sample
Optional Extras Iodine Chloride	1-2 weeks	

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FEEDSTUFF ANALYSIS		
Silage Profile pH, Dry Matter, Crude Protein, Ash, Soluble Sugars, Starch, Acid Detergent Fibre, Neutral Detergent Fibre, Metabolisable Energy, Digestibility, Ammonium-N, Ammonium-N:Total N, Lactic Acid.	1-2 weeks	1kg sample
Extended Silage Profile Silage Profile plus Nitrogen, Phosphorous, Potassium, Sulphur, Calcium, Magnesium, Sodium, Iron, Manganese, Zinc, Copper, Boron, Molybdenum, Cobalt and Selenium.	1-2 weeks	1kg sample
Feed Forage Dry Matter, Crude Protein, Ash, Acid Detergent Fibre, Neutral Detergent Fibre, Soluble Sugars, Metabolisable Energy and Digestibility.	1-2 weeks	1kg sample
Maize Forage Dry Matter, Crude Protein, Ash, Acid Detergent Fibre, Neutral Detergent Fibre, Starch, Metabolisable Energy and Digestibility.	1-2 weeks	1kg sample
Dry Matter and Metabolisable Energy	1-2 weeks	1kg sample
Dry Matter only	1-2 weeks	1kg sample
Volatile Fatty Acid Profile Lactic, Acetic, Butyric, Propionic and Formic acids	1-2 weeks	1kg sample
Optional Extras Starch Crude Fat	1-2 weeks	
HAEMATOLOGY		
CBC (incl FIB and blood smear exam)	Same Day	EDTA
ABC – Automated Blood Count (incl WBC + automated Diff)	Same Day	EDTA
ESR	Same Day	EDTA
Fibrinogen	Same Day	EDTA
White Blood Cell Count (incl Diff)	Same Day	EDTA
Reticulocytes/Heinz bodies (EDTA)	Same Day	EDTA
Coagulation Profile (citrate)	Same Day	Citrate
Coombs	Same Day	EDTA
Neonatal isoerythrolysis	Same Day	Mare - Serum & EDTA Foal - Serum & EDTA
Cross match	Same Day	Serum & EDTA
CYTOLOGY		
Fluids Single Additional	Same Day Same Day	Serum & EDTA Serum & EDTA
FNA/Smears Single site Additional site	Same Day Same Day	Smear Smear
Histo/Cyto package (single biopsy plus single site cyto on same mass)	2 days	Smear and fixed tissue
CSF exam	Same Day	Serum and EDTA
HISTOLOGY		
Single tissue or Single Skin Biopsy	2 days (bone 1 week)	Fixed
Multiple Tissues or Multiple Skin Biopsies	2 days	Fixed
Histo/Cyto package (single biopsy plus single site cyto on same mass)	2 days	Fixed
Vas deferens		
Vas deferens (each)	2 days	Fixed
Vas deferens (Please phone for bulk discounts)	2 days	Fixed
NECROPSY		
Bovine foetus (necro + histo)	3 days	Chilled
Head – cow	Approx 1 week	Brain Fixation prolonged
Horse/Cow (Palmerston North site only)		
Ovine or Caprine foetus (necro only)	3 days	Chilled
Sheep/Goat/Calf (full PM) weight limit 40kgs	Next Day	Histo 3 days

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MILK POWDER		
Fat, Protein, Lactose	1 week	Milk/Milk powder
Curd test	Next Day	Milk powder
CALF DIARRHOEA SCREEN		
Calf Diarrhoea Panel (<1 week) E.Coli (K99), Cryptosporidium, Rotavirus, Salmonella,	See individual constituents	Faeces
Calf Diarrhoea Panel (1-3 weeks) Cryptosporidium, Rotavirus, Salmonella	See individual constituents	Faeces
Calf Diarrhoea Panel (>3 weeks) Coronavirus, FEC/Coccidia, Salmonella	See individual constituents	Faeces
MICROBIOLOGY		
Aerobic culture only	24/48 hours	Various
Aerobic culture & sensitivity	24/48 hours	Various
Anaerobic culture	48/72 hours	Various
Aerobic + Anaerobic + sensitivity	24/48/72 hours	Various
Blood Culture (bottles extra)	24/48 hours/7 days	Blood
Mycology		
Dermatophytes (includes KOH)	24-1/2/3 weeks	Hair, skin scrape
Non dermatophytes	24-1/2/3 weeks	Hair, skin scrape
Campylobacter	48 hours	Various
Salmonella	24/48 hours	Faeces/Gut
Yersinia	48 hours	Faeces/Gut
Listeria	24/48/72/96 hrs	Faeces/Gut
Salmonella + Campylobacter	24/48 hours	Faeces/Gut
Salmonella + Yersinia	24/48 hours	Faeces/Gut
Salmonella + Campylobacter + Yersinia	24/48 hours	Faeces/Gut
E.coli (K88)	72 hours	Faeces
Milk culture	24/48 hours	Milk
Milk culture + sensitivity	24/48 hours	Milk
Inhibitory substances	Same Day/Next Day	Milk
Mycoplasma culture	3 weeks	Swab/Tissue - Mycoplasma transport media required
Occult blood	Same Day	Faeces
Stains		
Gram	Same Day	Swab, smear etc
KOH	Next Day	Hair, skin scrape
ZN	Same Day	Faeces/Gut
Equine uterine swab		
Aerobic culture & smear	24/48 hours	Uterine swab
Aerobic culture, sensitivity & smear	24/48 hours	Uterine swab
Clostridial FAT	72 hours	Rib/Muscle
Tritrichomonas fetus culture	1 week	Faeces
TB Culture	~ 3 months	Tissue
PARASITOLOGY		
Cryptosporidia	Same Day	Faeces
Cyathostome larvae	Same Day	Faeces
FEC + Coccidia		
Single	Same Day/Next Day	Faeces
> 6 samples	Same Day/Next Day	Faeces
Pooled (7-15 samples)	Same Day/Next Day	Faeces
Fluke		
Single	Same Day/Next Day	Faeces
Pooled (7-10 samples)	Same Day/Next Day	Faeces
Larval Culture	8-10 days	Faeces (not chilled)
Lungworm larvae	Next Day	Faeces

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Worm count Sheep (abomasum or small intestine) Cattle (abomasum or small intestine)	Same Day/Next Day Same Day/Next Day	Abomasum/Small Intestines
REPRODUCTIVE		
Inhibin	3-4 weeks	Serum
Progesterone (pregnant mare)	Same Day	Serum
MIP (PMSG) (40-100d pregnant mare)	1-3 days	Serum
Oestrone sulphate (>100d pregnant mare)	Tues & Fridays	Serum
Oestrone sulphate (rig/stallion)	Tues & Fridays	Serum
Testosterone	2 days	Serum
SEROLOGY/VIROLOGY		
Brucella Ovis CFT Diagnostic	2-3 days 2-3 days	Serum Serum
BVD Bulk Tank Milk ELISA	2-4 days	Milk
BVD ELISA Ab	1-3 days	Serum or EDTA
BVD ELISA Ag	1-3 days	Serum/EDTA/foetal heart blood
BVD PCR Bulk Tank Milk Ag (serum, takes 3-5 days)	1-2 weeks Tues & Thurs	Milk Serum
BVD PCR + EBL	Tues & Thurs	Serum
CAE ELISA Ab	2-3 days	Serum
Coronavirus (faeces)	Same Day/Next Day	Faeces
DNA Parentage Tests	3-4 weeks	Buccal swab
EBL Ab Pool (up to 10 samples per pool)	1-3 days	Serum
EBL Ab (1-10 samples)	1-3 days	Serum
EBL Ab (11+ samples)	1-3 days	Serum
E.coli (K99) ELISA	1-3 days	Faeces
EIA (Coggins)	4-5 days	Serum
Equine Herpes Ab Titre	3-5 days	Serum
Equine Herpes Type I and IV ELISA	5 days	Serum
Equine IgG TIA (quantitative) EVA SNT EVA virus isolation (semen)	Same Day 3-5 days 1 month	Serum Serum Semen
IBR ELISA Ab (single)	2-3 days	Serum
IBR or BVD SNT (1st sample)	1-2 weeks	Serum
Johnes CFT/GDT/CERVINE ELISA	2-4 days	Serum
Johnes ELISA (bovine, ovine, caprine)	1-7 days	Serum
Leptospira Ab titre Per serovar (hardjo, pomona, copenhagenii, tarassovi) Export purposes or serovars ballum, bratislava, grippotyphosa Leptospira PCR	1-3 days 1-3 days 2-4 days	Serum/foetal heartblood Serum Urine
Liver fluke ELISA Single Pool (up to 10 samples) MCF ELISA MCF PCR Mortierella Ab ELISA Neospora	1-3 days 1-3 days 2-4 days 1-3 weeks 2-3 days 1-3 days	Serum Serum Serum EDTA Serum Serum/foetal heartblood
Rotavirus (faeces)	Same Day/Next Day	Faeces
Toxoplasmosis Titre Screen Virus Isolation (per virus)	1-3 days 1-3 days 1 month	Serum Serum Various - send in VTM

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TOXICOLOGY		
1080 (tissue)	7-12 days	Muscle/Stom Cont/Bait
Arsenic	5-7 days	Hair/Kidney/Liver/Urine
Blood cholinesterase	1-3 days	EDTA
Cyanide (Qualitative)	Next Day	Plant/Stom Cont
FE spore counts		
Grass/faeces	Same Day for grass	Grass/Faeces
Pooled faeces	Next Day for faeces	Faeces
Lead (EDTA)	Next Day	EDTA
Nitrate		
Plant Qualitative Nitrate	Same Day	Plant Material
Plant Quantitative Nitrate	5 days	Plant Material
Plant Quantitative + Qualitative Nitrate	See above	Plant Material
Serum	Same Day	Serum
Organochlorine	2 weeks	Fat/Muscle
Organophosphate	2 weeks	Fat/Ingesta/liver/ feed
Plant ID	5 days	Plant
Strychnine	1-2 weeks	Stomach Cont/Liver
URINALYSIS		
Full Urinalysis (dipstick + sediment + SG)	Same Day	Urine
Sediment only	Same Day	Urine