

Title	Collect and carry out routine examinations on urine samples from animals		
Level	5	Credits	5

Purpose	People credited with this unit standard are able to: collect urine samples; examine urine; and maintain safety of workplace and self in the course of duties.
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Classification	Animal Care and Handling > Animal Care
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Available grade	Achieved
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Guidance Information

- 1 For credit, evidence must be in accordance with the statutory and industry requirements contained in the following documents.
 Relevant and current National Animal Welfare Advisory Committee (NAWAC) Codes of Welfare and Codes of Recommendations and Minimum Standards, available at <http://www.maf.govt.nz>, under animal welfare.
 Relevant New Zealand Veterinary Association (NZVA) standards, available from NZVA, PO Box 11-212, Manners Street, Wellington (<http://www.vets.org.nz>) including the current versions of *Standard Procedures for Veterinary Nursing and Animal Care* (referred to in this unit standard as *standard procedures*) and *BESTPRACTICE™ Companion Animal Practice Standards*.
 Hazardous Substances and New Organisms Act 1996, Animal Welfare Act 1999, Health and Safety in Employment Act 1992, and any subsequent amendments.
- 2 *In-house procedures* refer to the documented policies and procedures for animal care, handling, and ethical behaviour codes required by the employer.
- 3 Underpinning Knowledge
 The following areas of knowledge underpin performance of the elements in this unit standard:
 - Outcome 1
 Situations when catheterisation may be necessary, precautions, requirements and post-catheterisation precautions
 Preservatives for urine samples
 Time of day of collection
 - Outcome 2
 Reasons for variation of appearance and specific gravity of urine
 Normal values, reasons for variation according to species
 Constituents of urine
 Reasons for presence of substances

Routine care, cleaning, daily maintenance, preparation and use of urinometer, refractometer, centrifuge
Chemical tests appropriate for substance.

Outcomes and performance criteria

Outcome 1

Collect urine samples.

Performance criteria

- 1.1 Urine is collected according to type of test to be performed, and placed in suitable collection bottles with appropriate preservative and labelled.
- Range mid stream free flow, free flow manual expression, catheterisation, cystocentesis (sterile sample).
- 1.2 Methods for, and conditions of, storage of urine to prevent deterioration of sample are described.

Outcome 2

Examine urine.

Performance criteria

- 2.1 Macroscopic examination is carried out on urine to determine state according to species and standard procedures.
- 2.2 The pH of the urine sample is measured using dipsticks according to manufacturer's instructions.
- 2.3 The specific gravity of the urine sample is measured using a refractometer according to standard procedures.
- 2.4 Tests are carried out on the urine sample to determine presence of substances, using dipsticks according to manufacturer's instructions.
- Range protein, glucose, lactose, ketones, blood, bile salts, bile pigments, urobilinogen, bilirubin, nitrate.
- 2.5 Sample is spun down and sediment is prepared for microscopic examination according to standard procedures.
- 2.6 Sample is collected in a sterile manner and prepared for bacterial culture.
- 2.7 The presence of urinary calculi and crystals are identified by macroscopic and microscopic examination and test kits used according to manufacturer's instructions.
- 2.8 Results are recorded and reported according to in-house procedures.

Outcome 3

Maintain safety of workplace and self in the course of duties.

Performance criteria

- 3.1 Designated working area, kept specifically for the purpose, is clean and organised to prevent contamination in accordance with NZVA Companion Animal Practice Standards.
- 3.2 Special wastes are bagged in safety approved polythene bags and disposed of according to workplace health and safety protocol.
- 3.3 Quality control measures are followed in accordance with diagnostic test specifications to ensure accurate results.
- Range records, equipment, reagents, technical integrity.
- 3.4 Protective clothing and disposable gloves are used throughout the process where there is a known or suspected personal safety risk in accordance with NZVA Companion Animal Practice Standards.
- 3.5 Safe working practices are adopted according to practice policies on all matters of health and safety, according to the Health and Safety in Employment Act 1992 and workplace safety plan.
- 3.6 Stocks of laboratory supplies are checked and re-ordered according to in-house procedures.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	8 August 1996	31 December 2022
Revision	2	16 November 1998	31 December 2022
Revision	3	7 June 2000	31 December 2022
Revision	4	16 October 2001	31 December 2022
Rollover and Revision	5	25 June 2007	31 December 2022
Review	6	22 October 2020	31 December 2022

Consent and Moderation Requirements (CMR) reference	0228
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.