Collecting a urine sample from your cat at home

A guide for cat owners



Equipment needed

- 1. One clean, dry, empty litter tray
- 2. A supply of non-absorbent cat litter: cats do not usually like to urinate in an empty tray. Examples of non-absorbent litters include:
 - Commercial brands eg Katkor, Mikki, Catrine, Kit4Cat (available from your vet, pet store or online)
 - Clean aquarium gravel
 - A sheet of bubble wrap cut to fit the litter tray
 - Chopped up supermarket plastic bags
- 3. A syringe/pipette and a sterile urine collection pot (available from your vet)

Katkor urine collection kit



 Commercially available non-absorbent cat litter kits usually come with a pipette and collection pot included

Mikki litter in a litter tray



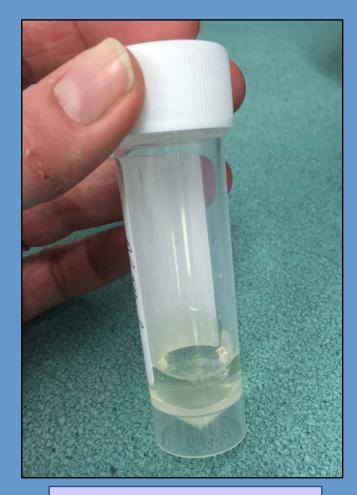
- Add the non-absorbent litter to the empty litter tray
- Consider putting some newspaper under one end of the tray so that the tray is on a slight slope
 - That way your cat will not get wet paws after urinating in the tray
- Confine your cat in one room with the specially prepared litter tray
 - Depending on your cat's routines, it may be easiest to do this overnight
- Periodically check whether your cat has urinated (no need to get up in the night!)
 - Most elderly cats will pass a sample within a few hours
 - Very determined cats may wait for up to 24 hours



- Once your cat has urinated, a sample can be collected
- Gently tip the litter tray so that the urine pools at one corner
- Collect a sample using a pipette or syringe
- Squirt the urine into the collection pot

• 5-10 ml (1-2 teaspoons) of urine is ideal for analysis but if you have less than this, still collect it as it will probably be enough for some of the analysis: eg only a drop of urine is needed for a urine specific gravity

 If possible label the collection tube with your cat's name, your surname, the date and time of collection



This 'universal' tube can collect up to 20 ml urine

 Deliver the sample to your vet clinic as soon as possible

 If immediate delivery is not possible then place the sample pot in a clean plastic bag or box which is then put into your refrigerator until you can take the sample in



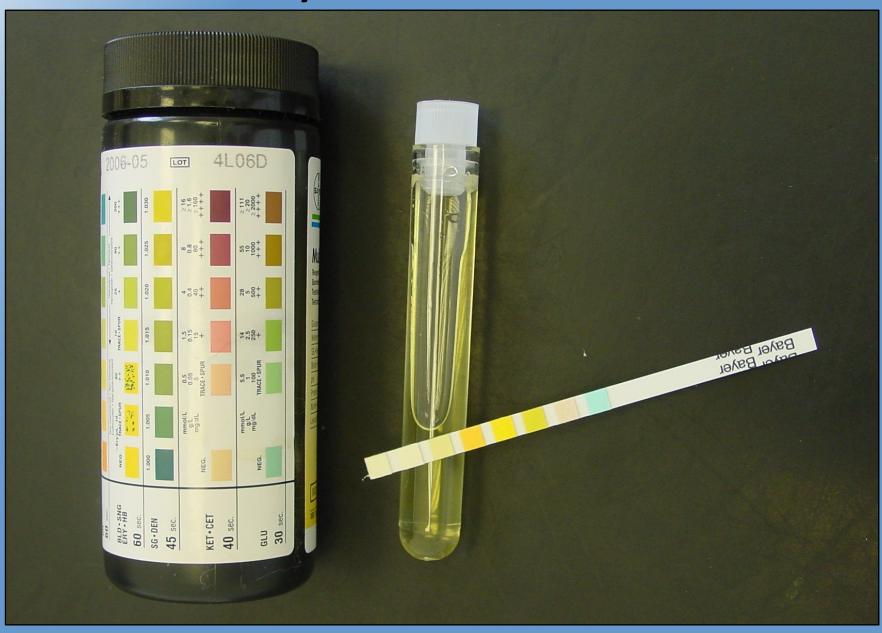
Tricky cats

What do I do if my cat won't urinate in the special

litter tray?

- If your cat does not pass a sample within 24 hours or if he/she becomes at all distressed you may need to abandon the procedure
- Contact your vet for further advice if at all concerned
- In most situations no problems are encountered and a sample can be quickly collected and delivered to your vet for analysis

Urine analysis: what do vets do?



Typical in-house analysis

1. Colour, clarity, visible abnormalities

– eg is the sample cloudy, bloody or otherwise abnormal?

2. Specific gravity test

- Measured using a refractometer
- Tells you how concentrated (or dilute) the urine is

3. Dipstick

- Most helpful in checking for the presence of blood, glucose (sugar), ketones and protein
- Cats suffering from diabetes mellitus have glucose (+/- ketones) in their urine



Specific Gravity Interpretation

- Urine specific gravity (USG) should be measured using a refractometer and NOT dipsticks
- What's normal in healthy cats?
 - USG > 1.035
 (usually 1.040 1.090)



 NB In cats consuming a very liquid diet it can be normal for the USG to be lower than this

Specific Gravity Interpretation

- When is measurement of USG helpful—some examples:
 - Dehydration (otherwise healthy cat)
 - USG generally between 1.050 1.090
 - Cats with kidney disease, thyroid disease, diabetes mellitus
 - USG generally less than 1.035
 - Cats with idiopathic cystitis
 (idiopathic feline lower urinary tract disease)
 - USG generally above 1.040 and may be much higher

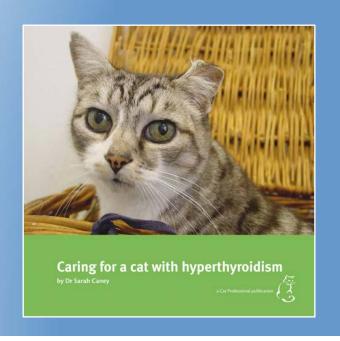


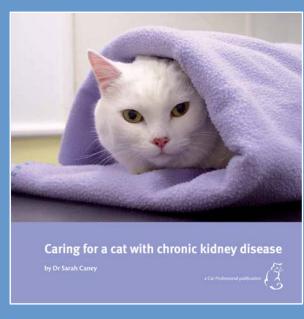
Other tests that may be done

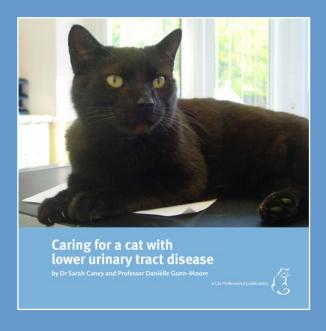
- Sediment examination
 - Spin down (centrifuge) the urine sample and microscopically examine the solid material that collects at the bottom of the tube for evidence of infection, inflammation or other disease
- Bacterial culture (usually done at an external laboratory)
 - If suspicious of a bacterial urinary tract infection
- Protein measurement (usually done at an external laboratory)
 - Relevant in cats with kidney disease and some other conditions. The urine protein to creatinine (UPC) ratio is considered to be the best test for this

More information

- More information on the relevance of urine testing in cats with kidney disease, hyperthyroidism and lower urinary tract disease is available in our books on these topics
- https://www.vetprofessionals.com/store/







Disclaimer

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