Clinical Pathology Sample Collection Guidelines

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GENERAL INFORMATION:
- For technique training, contact the ULAM Training Core at ulam-trainingcore@umich.edu or (734) 763-8039
- For assistance with sample collection, contact ULAM Technical Services at ulam-techservices@umich.edu
- For questions about specific chemistry volumes, contact us at (734) 936-3395 or (734) 936-3803

MINIMUM VOLUMES:
- CBC (Complete Blood Count):
  - For small species (rodents), draw minimum 50 µl whole blood in lavender (EDTA) Microvette 100 tube
    (If using 250 µL tubes draw minimum 125 µl)
  - For larger species draw up to the listed draw volume: note that we do not accept tubes >4 ml
  - Other anticoagulants may interfere with results
  - Immediately and thoroughly mix sample after drawing by inverting 8-10 times
  - Keep at room temperature, NOT on ice; refrigerate at 4˚C if must be stored overnight
  - CBC samples cannot be analyzed after 24 hours

- Chemistries:
  - Chemistries are performed on serum or heparinized plasma
  - Blood may be collected in the serum separator microtainer (yellow), plasma tubes (green), or no–additive serum tubes (red top). Serum volume recovery is best in serum separator tubes (yellow)
  - Normally, half the volume of whole blood is serum (i.e. 100 µl whole blood gives 50 µl serum)
  - Allow blood to clot for ~30 minutes, then centrifuge sample for 8-10 minutes at 1000-3000 g
  - If samples will not be run for >24 hours or more, spin and separate serum, then freeze serum at -20˚C

SUBMISSION NOTES:
- A current account number (short code) must always be given
- Syringes with needles, glass sample tubes, or tubes with volumes >4 ml will NOT be accepted
- If running chemistries the only anticoagulant that is acceptable for plasma is lithium heparin (no citrate!)
- Fecal specimens must be in proper containers (no gloves)
- Urine samples should be clean catch in a sterile container
- Microbiology samples should be submitted promptly after collection

SUPPLIES:
Though the ADL does not provide supplies, we do have a list of sources. Please ensure that you purchase plastic (not glass) tubes of appropriate volume for the species – note we cannot accommodate tube volumes >4 ml.

<table>
<thead>
<tr>
<th>Item (draw volume)</th>
<th>Usage</th>
<th>Vendor</th>
<th>Catalog #</th>
<th>Mfr</th>
<th>Mfr #</th>
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<td>Fisher</td>
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<td>Microbiology swabs</td>
<td>Fisher</td>
<td>B432009x</td>
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Updated: 08/11/2020