ZOO 409, Fall 2019: Lab 3 – Food Diversity and Digestibility

|  |  |  |  |
| --- | --- | --- | --- |
| **Reagent/Material** | **Quantity** | **Vendor stock #** | **purpose** |
| Scales with 0.001g resolution | 6 |  | Weigh dried food from previous lab |
| 2.0 mL micro-centrifuge tubes | 1 bag (at least 200 tubes) |  | Prep for coumarin extraction (ww) |
| Micro-centrifuge tube holders/racks | 6 | Make sure tubes fit into them |  |
| Sieves (6 sizes in single set) | At least 6 sets of 6 – but bring all you have | FORBEY Lab will provide | Separating particle size from gizzard contents |
| 9cm Petri dish | 16 |  | For holding grit of each bird |
| 50 mL conical tubes | 12 |  | For separating grit from rest |
| Weigh boats - small | 20/group | Same ones we always have | Separate plant species and parts |
| Metal counters | 12 | IF AVAILABLE – no need to buy them! – Brecken check under our bench for bag of these – I have seen them somewhere!! | Count plant species and parts. |
| Tweezers/forceps | 28 |  | Separating grit and food |
| Vortexer | 3 |  | Mix grit and food in conical |
| Foil | 6 rolls – okay if only single roll |  | Use to place foods on them for transfer to drying oven |
| Cafeteria trays | 7 | Something flat and sturdy to transfer things to scales | To transfer weigh boats to high resolution scales |
| Dissecting scope or magnifying lenses | 12 | Confirm these are available in the room? – I do have 5 field scopes we could use for this? | To see grit better |
| Sharpies: Fine point | 7 |  |  |
| Sharpies: Thick point | 7 |  |  |
| Wax pencils | 7 |  |  |
| Ziploc bags – quart size | 7 boxes |  |  |
| DI water | 1 jug |  | For extracting coumarins from food parts in crop and gizzard |
| 70% Ethanol | 6 squeeze bottles |  |  |
| Ethanol | 200 mL | 70% or 100% is fine. We can dilute if necessary. |  |
| 10% bleach | 7 squeeze bottles |  | Clean up. |
| Kim wipes | 7 boxes |  |  |
| Gloves – small, medium and large | Several boxes of each size |  |  |