**UC Davis: Pathogen Isolation, Detection, and Characterization**

**Internal UCD Sample Submission Form**

Please submit this information to the lab via email prior to sending the sample AND include a hard copy of this request with the sample when shipped.

IMPORTANT: Contact personnel (Lauren Camp, lcamp@ucdavis.edu, Karen Shapiro, kshapiro@ucdavis.edu) must be informed in advance of sample arrival. Please clearly note on package whether contents need be kept frozen (-20°C) or cold (4°C).

**Mail specimens to:**

Camp/Shapiro Lab

One Shields Ave.

4206 VM3A

UC Davis Veterinary School

Dept. Vet Med: PMI

Davis, CA 95616

*- Please fill out all blue shaded boxes\* -*

|  |  |
| --- | --- |
| Submitter’s name |  |
| Contact information – Email / Phone |  |
| Recharge account (*if applicable*) |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Animal ID: |  | Sex: |  |
| Species |  | Age: |  |
| Sample type and No. (serum/tissue type): |  | Date collected: |  |
| Method of shipment: |  | Tracking No: |  |

|  |  |
| --- | --- |
| Sample preparation and storage type: (fresh/refrigerated/frozen/paraffin embedded) |  |

|  |  |
| --- | --- |
| Clinical History:  (Indicate status: alive or dead. If alive, indicate captive or stranded [date of stranding], symptoms, treatment, results from relevant diagnostics) |  |
| Purpose for testing – differential diagnoses: |  |

*\* Information will aid result interpretation and/or consultation if needed*

Test(s) requested: *please contact laboratory personnel listed below if further consultation is needed regarding optimal diagnostics for your case(s)*

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Assay** | **Cost** | **No. samples** |
| **Parasite Isolation - Tissue** | Parasite isolation by tissue culture | $101 |  |
|  | Cryopreservation of isolated parasites | $101 |  |
| **Isolation - Water** | Membrane filtration - *Toxoplasma* detection | $69 |  |
|  | Fresenius water concentration | $114 |  |
| **Isolation - Feces** | Fecal floatation - parasite identification and recovery | $33 |  |
| **Molecular detection** | DNA extraction - environmental or fecal sample | $35 |  |
|  | DNA extraction - tissue sample | $34 |  |
|  | PCR - parasite DNA - nested single locus | $62 |  |
|  | PCR - parasite DNA - nested multiplexed (Toxoplasma 12 loci) | $80 |  |
|  | PCR - bacterial or fungal DNA - single non nested | $35 |  |
|  | Gel electrophoresis (GE) | $25 |  |
| **Molecular characterization** | DNA purification, sequencing, and sequence analysis (per locus) | $80 |  |
|  | RFLP of parasite DNA (per locus) | $100 |  |
| **Bundles\*** | Bundle 1: DNA extraction - PCR - Gel electrophoresis (GE) | $91 |  |
|  | Additional Samples | $45 |  |
|  | Bundle 2: DNA Extraction - PCR (nested) - GE | $119 |  |
|  | Additional Samples | $60 |  |
|  | Bundle 3: PCR - GE - Sequencing –Micro sample | $113 |  |
|  | Additional Samples | $55 |  |
|  | Bundle 4: DNA extraction - PCR - GE - Sequencing & analysis | $146 |  |
|  | Additional Samples | $70 |  |
|  | Bundle 5: DNA extraction - PCR (nested) - GE - Sequencing & analysis | $162 |  |
|  | Additional Samples | $79 |  |

**\*** Bundles are the most common service provided for molecular detection and characterization, and include extraction of DNA, DNA amplification via PCR, and visualization of amplified products on agarose gel (GE). Definitive identification requires further sequence analysis. PCR assays targeting parasites are typically nested in design, while those targeting bacteria or fungi are not.

*- For laboratory personnel only -*

|  |  |
| --- | --- |
| **Date/Time received:** |  |
| **Sample condition:** |  |
| **Received by** |  |

|  |  |
| --- | --- |
| **Results:** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Total charges:** | **Cost per sample** | **No. samples** | **Total per assay** |
| Assay 1 |  |  |  |
| Assay 2 |  |  |  |
| Assay 3 |  |  |  |
| Assay 4 |  |  |  |
| **Grand total** |  |  |  |

**Laboratory Contact Information:**

**For technical assistance regarding sample submission and/or preparation:** Please contact Lauren camp - Email: lcamp@ucdavis.edu

**For result interpretation and/or consultation**: Please contact Dr. Karen Shapiro Email: [kshapiro@ucdavis.edu](mailto:kshapiro@ucdavis.edu)

**Reviewed by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Dr. Karen Shapiro