CMSP Instructions for Biocrates Sample Collection/Delivery

*CMSP asks that you adhere to these guidelines when collecting, preparing, and delivering samples for biocrates experiments.*

A maximum of 75 samples can be run on a full biocrates plate (40 for a half-plate), including any pooled samples. Experiments aiming to normalize results across multiple plates should include global sample pools (5 pools/plate).

Samples should be collected as quickly as possible. Store samples at the lowest available temperature and avoid repeated freezing/thawing of samples.

Samples should be collected/delivered in the appropriate amounts and tubes for each sample type (record exact amounts in form below). If sample type is not listed, please inquire with CMSP staff regarding sample amounts and tubes.

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| **Material Type** | **Amount**  | **Tube** |
| Plasma | ≥50µL | Eppendorf Protein-LoBind, 1.5mL (PN: 022431081) |
| Serum | ≥50µL | Eppendorf Protein-LoBind, 1.5mL (PN: 022431081) |
| Bile | ≥50µL | Eppendorf Protein-LoBind, 1.5mL (PN: 022431081) |
| Cell pellet | 1x106-20x106 cells | Eppendorf Protein-LoBind, 1.5mL (PN: 022431081) |
| Cell media | ≥50µL | Eppendorf Protein-LoBind, 1.5mL (PN: 022431081) |
| Tissue | 50-350mg | 50-85mg: 0.5mL Precellys Tube (PN: P000933-LYSK0-A) +85-350mg: 2mL Precellys Tube (PN: P000918-LYSK0-A) + |
| Feces, Dried/Lyophilized  | 50-500mg | 50-150mg: 2mL Precellys Tube (PN: P000918-LYSK0-A) +150-500mg: 7mL Precellys Tube (PN: P000935-LYSK0-A)+ |
| Feces, Fresh/Wet | 200-1000mg | 200-300mg: 2mL Precellys Tube (PN: P000918-LYSK0-A) +300-1000mg: 7mL Precellys Tube (PN: P000935-LYSK0-A)+ |

+Precellys Lysing Kit tubes can be picked up from CMSP or purchased independently. **DO NOT put Precellys tubes in liquid nitrogen.**

For questions/concerns regarding sample collection, preparation, or delivery, please contact CMSP staff Candace Guerrero (cguerrer@umn.edu) or Zachary Mayer (mayer498@umn.edu), or visit the CMSP website: <https://cmsp.umn.edu/services/biocrates>.

*Fill out the form below and upload to “attachments” tab of FileMakerPro experiment and/or email to Candace Guerrero (**cguerrer@umn.edu**) and Zachary Mayer (**mayer498@umn.edu**), include experiment FMP# or Temp# in email subject line. Also, print a copy of the form and include it with sample delivery.*

CMSP Biocrates Sample Delivery Form

*Upload to “attachments” tab of FileMakerPro experiment and/or email to Candace Guerrero (**cguerrer@umn.edu**) and Zachary Mayer (**mayer498@umn.edu**), include experiment FMP# or Temp# in subject line. Print a copy of this form to include with sample delivery.*

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| PI:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­­­­­\_\_\_\_\_ email:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Researcher:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ email:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Experiment Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_EFS#:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Sample drop-off date:\_\_\_\_\_\_\_ Sample drop-off location:\_\_\_\_\_\_\_\_\_\_\_\_\_Box Label:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | FMP#:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Temp#:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Assay Type (select one):□ MxP® Quant500□ MxP® Quant500 XL |
| # of samples (including pooled samples):\_\_\_\_\_\_\_\_# of sample groups:\_\_\_\_\_\_\_\_\_\_Species:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Sample Material (select all that apply): □ Plasma □ Serum □ Bile □ Tissue □ Cell Pellet □ Cell Media □ Feces (fresh/wet) □ Feces (dried/lyophilized) □ Other, specify:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Do you want additional statistical analysis, beyond data processing? □ Yes □ NoDo you want to retrieve samples after analysis? □ Yes □ No  \*CMSP will dispose of your samples after analysis unless “Yes” is selected. |

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| **#** | **Sample Name** | **Group** | **Material** | **Amount (volume, mass)** |
| ***0*** | *DEMO-001* | *Control* | *Plasma* | *50µL* |
| ***0*** | *DEMO-002* | *Control* | *Feces, Dried* | *75mg* |
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