



# 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.

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	1x10 <sup>6</sup> -20x10 <sup>6</sup> 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-LYSKO-A) <sup>+</sup> 85-350mg: 2mL Precellys Tube (PN: P000918-LYSKO-A) <sup>+</sup>
Feces, Dried/Lyophilized	50-500mg	50-150mg: 2mL Precellys Tube (PN: P000918-LYSKO-A) <sup>+</sup> 150-500mg: 7mL Precellys Tube (PN: P000935-LYSKO-A) <sup>+</sup>
Feces, Fresh/Wet	200-1000mg	200-300mg: 2mL Precellys Tube (PN: P000918-LYSKO-A) <sup>+</sup> 300-1000mg: 7mL Precellys Tube (PN: P000935-LYSKO-A) <sup>+</sup>

<sup>+</sup>Precellys Tissue Homogenizer 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](mailto:cguerrer@umn.edu)) or Zachary Mayer ([mayer498@umn.edu](mailto:mayer498@umn.edu)), or visit the CMSP website: <https://cmsp.umn.edu/services/biocrates>.