

TMIC Li-Node Service Sample Amount Requirement

TMIC Li-Node provides Global Metabolomics Analysis by using Chemical Isotope Labeling (CIL) LC-MS platform and Global Lipidomics Analysis by using In-depth Lipidomics LC-MS platform. The sample amount required for each level of analysis is listed below. If the sample type is not listed or the sample amount is not sufficient as shown below, please contact TMIC Li-Node (liang.li@ualberta.ca). We will discuss and try to accommodate your needs. In some cases, we may need a few test samples for method development.

| Sample Type | Basic metabolomics ¹ | Elevated metabolomics ¹ | Comprehensive metabolomics ¹ | Flexible metabolomics | In-depth lipidomics ^{1,4} | Both metabolomics and lipidomics |
|-------------------------------------|--|---|---|------------------------------|---|--------------------------------------|
| Serum/Plasma | 25 µL / 100 µL | 50 µL / 150 µL | 100 µL / 250 µL | 50 µL/channel | 10 µL / 20 µL | In one tube |
| Urine | 15 µL / 30 µL | 25 µL / 50 µL | 40 µL / 80 µL | 20 µL/channel | 240 µL / 500 µL | In one tube |
| Saliva | 25 µL / 100 µL | 50 µL / 150 µL | 100 µL / 250 µL | 50 µL/channel | 60 µL / 120 µL | In one tube |
| Other Common Biofluids ² | 25 µL / 100 µL | 50 µL / 150 µL | 100 µL / 250 µL | 50 µL/channel | 60 µL / 120 µL | In one tube |
| Tissue ² | 5 mg / 20 mg | 10 mg / 40 mg | 20 mg / 60 mg | 10 mg/channel | 2 mg / 5 mg | Preferably placed in different tubes |
| Feces | 5 mg / 20 mg | 10 mg / 40 mg | 20 mg / 60 mg | 10 mg/channel | 2 mg / 5 mg | Preferably placed in different tubes |
| Plant | 5 mg / 20 mg | 10 mg / 40 mg | 20 mg / 60 mg | 10 mg/channel | 2 mg / 5 mg | Preferably placed in different tubes |
| Cells | 5 × 10 ⁵ / 1 × 10 ⁶ | 1 × 10 ⁶ / 2 × 10 ⁶ | 2 × 10 ⁶ / 4 × 10 ⁶ | 1 × 10 ⁶ /channel | 5 × 10 ⁵ / 1 × 10 ⁶ | Preferably placed in different tubes |
| Microbes | 5 mg / 20 mg | 10 mg / 40 mg | 20 mg / 60 mg | 10 mg/channel | 2 mg / 5 mg | Preferably placed in different tubes |
| Culture Medium | 25 µL / 100 µL | 50 µL / 150 µL | 100 µL / 250 µL | 50 µL/channel | 240 µL / 500 µL | In one tube |
| Other Types | Please inquire by sending an email to liang.li@ualberta.ca | | | | | |

1. The sample amount in each cell is shown as “**minimum amount / preferred amount**”.
2. Not including special biofluids or tissues, such as much diluted samples (e.g., dialysates, exosomes, needle biopsy, etc.). Please contact us for discussion.
3. Please measure or weigh the amount of samples during sample collection. Send the sample amount information when sending the samples.
4. For lipidomics of solid samples (e.g., tissue, cell pellets, etc.), purging the samples with N₂ or Ar before sealing the vials for shipping is recommended.