

Sample Submission Guidelines

Human Whole Genome Sequencing

| Service | Sample Type | Sample Source | Optimum Input Amount | Volume | Concentration | Purity and Quality |
|------------------|-------------|---|----------------------|---------|---------------|--|
| hWGS (PCR-free) | gDNA | Fresh frozen tissue, cell line, saliva, blood | ≥ 1.5 µg | ≥ 20 µl | ≥ 20 ng/µl | OD260/280 = 1.8 - 2.0 OD 260/230 ≥ 1.7 DIN ≥ 7 |
| hWGS (PCR-based) | gDNA | Fresh frozen tissue, cell line, saliva, blood | ≥ 500 ng | ≥ 20 µl | ≥ 20 ng/µl | OD260/280 = 1.8 - 2.0 OD 260/230 ≥ 1.7 DIN ≥ 7 |
| | gDNA | FFPE | ≥ 700 ng | ≥ 20 µl | ≥ 20 ng/µl | Main band of > 1,500 bp (Q Score > 0.5) DIN ≥ 4 |

Recommended suspension buffer: TE buffer or Nuclease-free water

Human Whole Exome Sequencing

| Service | Sample Type | Sample Source | Optimum Input Amount | Volume | Concentration | Purity and Quality |
|---------|-------------|---|----------------------|---------|---------------|--|
| hWES | gDNA | Fresh frozen tissue, cell line, saliva, blood | ≥ 300 ng | ≥ 20 µl | ≥ 15 ng/µl | OD260/280 = 1.8 - 2.0 OD 260/230 ≥ 1.7 DIN ≥ 7 |
| | gDNA | FFPE | ≥ 500 ng | ≥ 20 µl | ≥ 20 ng/µl | Main band of > 1,500 bp (Q Score > 0.5) DIN ≥ 4 |

Recommended suspension buffer: TE buffer or Nuclease-free water

RNA Sequencing

| Service | Sample Type | Sample Source | Optimum Input Amount | Volume | Concentration | Purity and Quality |
|-----------------------|-------------|---|----------------------|---------|---------------|---|
| RNA-Seq | Total RNA | Fresh frozen tissue, cell line, saliva, blood | ≥ 400 ng | ≥ 20 µl | ≥ 20 ng/µl | OD260/280 = 1.8 - 2.0 OD 260/230 ≥ 2.0 RIN ≥ 6 |
| | Total RNA | FFPE | ≥ 500 ng | ≥ 20 µl | ≥ 20 ng/µl | OD260/280 = 1.8 - 2.0 OD 260/230 ≥ 2.0 DV200 > 50% RIN ≥ 2 |
| RNA-Seq (Directional) | Total RNA | Fresh frozen tissue, cell line, saliva, blood | ≥ 800 ng | ≥ 20 µl | ≥ 20 ng/µl | OD260/280 = 1.8 - 2.0 OD 260/230 ≥ 2.0 RIN ≥ 6 |
| | Total RNA | FFPE | ≥ 1 µg | ≥ 20 µl | ≥ 20 ng/µl | OD260/280 = 1.8 - 2.0 OD 260/230 ≥ 2.0 DV200 > 50% RIN ≥ 2 |

Recommended suspension buffer: TE buffer or Nuclease-free water

Human Whole Genome Methylation Sequencing

| Service | Sample Type | Sample Source | Optimum Input Amount | Volume | Concentration | Purity and Quality |
|---------|-------------|--|----------------------|---------|---------------|---|
| hWGMS | gDNA | Fresh frozen, cell line, saliva, blood | ≥ 1.2 µg | ≥ 20 µl | ≥ 20 ng/µl | OD260/280 = 1.8 - 2.0 OD 260/230 ≥ 1.7 DIN ≥ 7 |
| | gDNA | FFPE | ≥ 1.2 µg | ≥ 20 µl | ≥ 20 ng/µl | Main band of > 1,500 bp (Q Score > 0.5) DIN ≥ 4 |

Recommended suspension buffer: TE buffer or Nuclease-free water

DNA Extraction Service

| Service | Sample Type | Sample Source | Optimum Input Amount |
|-----------------|-------------|---------------|----------------------------------|
| gDNA Extraction | gDNA | Blood | 3-5ml whole blood |
| | gDNA | Fresh frozen | TBA |
| | gDNA | Cell line | TBA |
| | gDNA | Saliva | TBA |
| | gDNA | FFPE | 10 mm ² , 5-10 slides |

Pe-made Library Sequencing Service

| Service | Library Concentration (measured by Qubit) | Total Amount | Total Volume |
|-----------------------------|---|--------------|--------------|
| Pre-made library sequencing | ≥ 2 ng/µl | ≥ 200 ng | ≥ 20 µl |

Shipping Information FAQ

1. How do I prepare and pack my samples for shipping?

Your MiRXES representative will provide you a Service Order Form and please fill in the required information, and then return it to us by both emailing a soft copy and attaching a printed copy in your sample package.

- a) Ensure all tubes or plates are clearly labelled per your descriptions in the Service Order Form
- b) Ensure all tubes or plates are tightly sealed to prevent leakage of samples
- c) Attach a copy of the printed Service Order Form
- d) Ensure adequate dry ice is used for the specimen storage & transport
- e) For Singapore customers: Inform your MiRXES representative to come collect the package
For non-Singapore customers: Ship your sealed package with your preferred courier to the address below

For Japanese Customer