

Transcriptome Sequencing

Reminder:

- Kindly note that all samples will not be returned. Please ensure you have made sufficient backups of the samples in advance.
- We recommend using 2 mL tubes for sample delivery (15 mL tubes for large tissue). 50 mL tubes are not accepted.

Recommendations on tissue samples (For 3 extraction)

Species	Tissue	NGS-based	TGS-based	Lnc-RNA	sRNA
Common plant	Root/Stem/Petal	450 mg	600 mg	600 mg	600 mg
	Leaf/Seed	300 mg	300 mg	300 mg	300 mg
	Fruit	1.2 g	1.2 g	1.2 g	1.2 g
Common animal	Heart/Intestine	300 mg	300 mg	450 mg	450 mg
	Viscera/Brain	240 mg	240 mg	240 mg	240 mg
	Muscle	450 mg	450 mg	600 mg	600 mg
	Bones/Hair/Skin	1 g	1 g	1.5 g	1.5 g
Arthropod	Insect	6	6	9	9
	Crustacea	300 mg	300 mg	450 mg	450 mg
Whole blood	Blood	1 tube	1 tube	2 tube	2 tube
Cells	Cultured cell	3 x 10 ⁶	3 x 10 ⁶	3 x 10 ⁶	3 x 10 ⁶
Serum/Plasma	Serum	-	-	6 mL	6 mL
	Plasma	-	-	6 mL	6 mL

Nucleotides sample requirements

Type	Concentration and Purity				Integrity
	Conc. (ng/μL)	Amount (μg)	OD260/280	OD260/230	
PB Sequel II-RNA	≥ 100	≥ 1.0	1.7-2.5	0.5-2.5	For plants: RIN≥7.5; For animals: RIN≥8.0; 5.0≥28S/18S≥1.0;
PB Revio-RNA		≥1.0 (≤20 M hifi reads) 1.5 μg RNA/Cell			
ONT-RNA	≥100	≥ 1.0	1.7-2.5	0.5-2.5	For plants: RIN≥7.0; For animals: RIN≥7.5; 5.0≥28S/18S≥1.0;
NGS-RNA	≥ 10	≥ 0.2	1.7-2.5	0.5-2.5	For plants: RIN≥4.0; For animals: RIN≥4.5; 5.0≥28S/18S≥1.0;
sRNA-Total RNA	≥ 80	≥ 0.8	1.7-2.5	0.5-2.5	RIN≥6.0; 5.0≥28S/18S≥1.0;
sRNA-Only sRNA	≥ 40	≥ 0.4	1.7-2.5	0.5-2.5	/
LncRNA	≥ 80	≥ 0.8	1.7-2.5	0.5-2.5	RIN≥6.0; 5.0≥28S/18S≥1.0;
CircRNA	≥ 80	≥ 0.8	1.7-2.5	0.5-2.5	

* The RNA is recommended to be stored in DEPC or RNase-free water. TE and TB are not accepted.
* It is recommended that the volume of the RNA be greater than 20 μL and the minimum 15 μL to ensure the transport of RNA.