

Sample submission guidelines for Molecular Biology Services based on Service Category

Service Category	Sample Type	DNA Application	RNA Application
PCR	Purified nucleic acid	<ul style="list-style-type: none"> Amount: 1 ug Volume: ≥ 20 ul OD 260/280: 1.7 - 1.9 Shipping condition: 4°C or Blue ice 	<ul style="list-style-type: none"> Amount: 2 ug Volume: ≥ 20 ul OD 260/280: 2.0 - 2.2 Shipping condition: Dry ice
Genotyping	Purified nucleic acid	<ul style="list-style-type: none"> Amount: > 2 ug Volume: ≥ 20 ul OD 260/280: 1.7 - 1.9 Shipping condition: 4°C or Blue ice 	N/A
Subcloning	Purified Plasmid 1 (Insert gene in holding vector)	<ul style="list-style-type: none"> Concentration: 50 ng/ul Amount: 1 ug Volume: ≥ 20 ul OD 260/280: 1.7 - 1.9 Shipping condition: 4°C or Blue ice 	N/A
	Purified Plasmid 2 (Destination vector)	<ul style="list-style-type: none"> Concentration: 150 ng/ul Amount: 4 ug Volume: ≥ 20 ul OD 260/280: 1.7 - 1.9 Shipping condition: 4°C or Blue ice 	N/A
PCR Product Cloning	Unpurified PCR products	<ul style="list-style-type: none"> Amount: 500 ng Volume: ≥ 20 ul Shipping condition: 4°C or Blue ice 	N/A
Materials required for Subcloning/ PCR Product Cloning	Competent cell	<ul style="list-style-type: none"> Shipping condition: Dry ice 	N/A
	Restriction enzyme	<ul style="list-style-type: none"> Shipping condition: Dry ice 	N/A
	Antibiotics	<ul style="list-style-type: none"> Shipping condition: Dry ice 	N/A
	Glycerol stock	<ul style="list-style-type: none"> Shipping condition: Dry ice 	N/A
	Expression vector (original stock)	<ul style="list-style-type: none"> Shipping condition: Dry ice 	N/A
LabChip Analysis	Purified nucleic acid	<ul style="list-style-type: none"> Concentration: 1 - 50 ng/ul Volume: ≥ 5 ul Shipping condition: 4°C or Blue ice 	<ul style="list-style-type: none"> Concentration: 25 - 500 ng/ul Volume: ≥ 5 ul Shipping condition: Dry ice
DNA Digestion	Purified nucleic acid (gDNA/plasmid DNA)	<ul style="list-style-type: none"> Concentration: 100 ng/ul Amount: > 5 ug Volume: ≥ 50 ul OD 260/280: 1.7 - 1.9 Shipping condition: 4°C or Blue ice 	N/A
Primer walking	Purified nucleic acid (plasmid DNA)	<ul style="list-style-type: none"> Concentration: 100 ng/ul Amount: > 5 ug Volume: ≥ 50 ul OD 260/280: 1.7 - 1.9 Shipping condition: 4°C or Blue ice 	N/A

Service Category	Sample Type	DNA Application	RNA Application
DNA Barcoding	Purified nucleic acid	<ul style="list-style-type: none"> Amount: > 500 ng Volume: ≥ 20 ul OD 260/280: 1.7 - 1.9 Shipping condition: 4°C or Blue ice 	N/A
	Culture colony (Bacteria, Fungus, Microalgae)	<ul style="list-style-type: none"> Visible single colonies (5 mm x 5 mm) was cut from agar plate with sterile blade, place in 1.5 ml centrifuge tube No. of replicates: 3 Shipping condition: Room temperature 	N/A
	Cell pellet (Bacteria, Fungus, Animal, Microalgae)	<ul style="list-style-type: none"> 50 - 100 mg of cell pellet in 1.5 ml centrifuge tube. No. of replicates: 3 Shipping condition: Dry ice 	N/A
	Animal tissue (Fish, Insect...)	<ul style="list-style-type: none"> 50 - 100 mg of animal tissue Submerge tissue in 5x volumes of absolute ethanol in 1.5 ml centrifuge tube. Label tube with printed label. Shipping condition: Room temperature 	N/A
	Plant leaf	<ul style="list-style-type: none"> 100 - 500 mg of fresh plant leaves Submit sample with silica gel or absorbent paper in ziplock bag. Shipping condition: Room temperature 	N/A
	Macroalgae (Seaweed)	<ul style="list-style-type: none"> 100 - 500 mg of fresh leaves Shipping condition: 4°C or Blue ice 	N/A
	Mushroom	<ul style="list-style-type: none"> Cut 5 mm x 10 mm of isolated pure mushroom from the mature mushroom with sterile blade, place in 1.5 ml centrifuge tube No. of replicates: 3 Shipping condition: Room temperature 	N/A
	FTA card (Animal blood)	<ul style="list-style-type: none"> Apply 2 - 3 drops of blood (125 ul) on FTA card Leave it dry completely at room temperature Submit FTA card in ziplock bag Shipping condition: Room temperature 	N/A
	Others (min. 5 samples)	Please enquire.	N/A
Reverse Transcription/cDNA synthesis	Purified nucleic acid	N/A	<ul style="list-style-type: none"> Concentration: 100 ng/ul Amount: > 2 ug Volume: ≥ 20 ul OD 260/280: 2.0 - 2.2 No. of replicates: 2 Shipping condition: Dry ice
Plasmid Preparation (Miniprep, Maxiprep)	Purified nucleic acid	<ul style="list-style-type: none"> Concentration: 100 ng/ul Amount: 1 ug Volume: ≥ 10 ul OD 260/280: 1.7 - 1.9 Shipping condition: 4°C or Blue ice 	N/A

Service Category	Sample Type	DNA Application	RNA Application
Sample Purification/Clean-up	Nucleic acid	<ul style="list-style-type: none"> • Concentration: 100 ng/ul • Amount: > 2 ug • Volume: ≥ 20 ul • OD 260/280: 1.7 - 1.9 • Shipping condition: 4°C or Blue ice 	<ul style="list-style-type: none"> • Concentration: 100 ng/ul • Amount: > 2 ug • Volume: ≥ 20 ul • OD 260/280: 2.0 - 2.2 • Shipping condition: Dry ice