Sample submission guidelines for Molecular Biology Services based on Service Category

Service Category	Sample Type	DNA Application	RNA Application
PCR	Purified nucleic acid	Amount: 1 ug	Amount: 2 ug
		Volume: ≥ 20 ul	 Volume: ≥ 20 ul
		• OD 260/280: 1.7 - 1.9	• OD 260/280: 2.0 - 2.2
		Shipping condition: 4°C or Blue ice	• Shipping condition: Dry ice
Genotyping	Purified nucleic acid	• Amount: > 2 ug	N/A
		Volume: ≥ 20 ul	
		• OD 260/280: 1.7 - 1.9	
		Shipping condition: 4°C or Blue ice	
Subcloning	Purified Plasmid 1 (Insert gene in holding vector)	Concentration: 50 ng/ul	N/A
-		• Amount: 1 ug	
		Volume: ≥ 20 ul	
		• OD 260/280: 1.7 - 1.9	
		Shipping condition: 4°C or Blue ice	
	Purified Plasmid 2 (Destination vector)	Concentration: 150 ng/ul	N/A
		• Amount: 4 ug	.,,,,
		• Volume: ≥ 20 ul	
		• OD 260/280: 1.7 - 1.9	
		• Shipping condition: 4°C or Blue ice	
PCR Product Cloning	Unpurified PCR products	Amount: 500 ng	N/A
T Cit i Toddet Clothing	onpurmed rest products	• Volume: ≥ 20 ul	IV/A
		Shipping condition: 4°C or Blue ice	
Materials required for Subcloning/ PCR	Competent cell	Shipping condition: 4 c or Bide ice Shipping condition: Dry ice	N/A
Product Cloning	Competent cen	Shipping condition. Dry ice	IV/A
Froduct Clorling	Restriction enzyme	Shipping condition: Dry ice	N/A
	Nestriction enzyme	Shipping condition. Dry ice	19/7
	Antibiotics	Shipping condition: Dry ice	N/A
	Glycerol stock	Shipping condition: Dry ice	N/A
	Expression vector (original stock)	Shipping condition: Dry ice	N/A
LabChip Analysis	Purified nucleic acid	Concentration: 1 - 50 ng/ul	Concentration: 25 - 500 ng/ul
		Volume: ≥ 5 ul	 Volume: ≥ 5 ul
		Shipping condition: 4°C or Blue ice	Shipping condition: Dry ice
DNA Digestion	Purified nucleic acid (gDNA/plasmid DNA)	Concentration: 100 ng/ul	N/A
		• Amount: > 5 ug	
		• Volume: ≥ 50 ul	
		• OD 260/280: 1.7 - 1.9	
		Shipping condition: 4°C or Blue ice	
Primer walking	Purified nucleic acid (plasmid DNA)	Concentration: 100 ng/ul	N/A
	The state of the s	• Amount: > 5 ug	[***·
		• Volume: ≥ 50 ul	
		• OD 260/280: 1.7 - 1.9	
		• Shipping condition: 4°C or Blue ice	
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Service Category	Sample Type	DNA Application	RNA Application
DNA Barcoding	Purified nucleic acid	• Amount: > 500 ng	N/A
		Volume: ≥ 20 ul	
		• OD 260/280: 1.7 - 1.9	
		Shipping condition: 4°C or Blue ice	
	Culture colony (Bacteria, Fungus, Microalgae)	Visible single colonies (5 mm x 5 mm) was cut from agar plate with sterile blade, place N/A	
		in 1.5 ml centrifuge tube	
		• No. of replicates: 3	
		Shipping condition: Room temperature	
	Cell pellet (Bacteria, Fungus, Animal, Microalgae)	• 50 - 100 mg of cell pellet in 1.5 ml centrifuge tube. N/A	
		• No. of replicates: 3	
		Shipping condition: Dry ice	
	Animal tissue (Fish, Insect)	• 50 - 100 mg of animal tissue	N/A
	Allilla tissue (Fish, Ilisect)		IN/A
		Submerge tissue in 5x volumes of absolute ethanol in 1.5 ml centrifuge tube.	
		Label tube with printed label.	
		Shipping condition: Room temperature	11/4
	Plant leaf	• 100 - 500 mg of fresh plant leaves	N/A
		Submit sample with silica gel or absorbent paper in ziplock bag.	
		Shipping condition: Room temperature	
	Macroalgae (Seaweed)	• 100 - 500 mg of fresh leaves	N/A
		Shipping condition: 4°C or Blue ice	
	Mushroom	Cut 5 mm x 10 mm of isolated pure mushroom from the mature mushroom with sterile N/A	
		blade, place in 1.5 ml centrifuge tube	
		No. of replicates: 3	
		Shipping condition: Room temperature	
	FTA card (Bacteria)	Inoculate > 20 single colonies in 125 ul sterile water/TE/PBS buffer or apply 125 ul of N/A	
		overnight liquid culture on FTA card	
		Leave it dry completely at room temperature	
		Submit FTA card in ziplock bag	
		Shipping condition: Room temperature	
	FTA card (Animal blood)	Apply 2 - 3 drops of blood (125 ul) on FTA card N/A	
		Leave it dry completely at room temperature	
		Submit FTA card in ziplock bag	
		Shipping condition: Room temperature	
	Others (min. 5 samples)	Please enquire.	N/A
Reverse Transcription/cDNA synthesis	Purified nucleic acid	N/A	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	Concentration: 100 ng/ul N/A	
		Amount: 1 ug	
		• Volume: ≥ 10 ul	
		• OD 260/280: 1.7 - 1.9	
		Shipping condition: 4°C or Blue ice	
Service Category	Sample Type	DNA Application	RNA Application

Sample Purification/Clean-up	Nucleic acid	Concentration: 100 ng/ul	Concentration: 100 ng/ul
		• Amount: > 2 ug	• Amount: > 2 ug
		• Volume: ≥ 20 ul	• Volume: ≥ 20 ul
		• OD 260/280: 1.7 - 1.9	• OD 260/280: 2.0 - 2.2
		Shipping condition: 4°C or Blue ice	Shipping condition: Dry ice