BGI Sample Testing Report

1. Project Information

Report No.: THKb15100101

Project Name	UW - Sam ***** - Sam White - de-novo genome Ostrea lurida			Project No.	F15FTSUSAT0327		
Customer Name	Steven Roberts			Customer Unit	Univ. of Washington		
Lab Sample Collector	wongwaiman			Lab Sample Receiving Date	20150930		
Lab Sample Tester	Lam Tsz Tung, Wan Pak Kiu			Lab Sample Testing Date	20150930		
Reported by	Wan Pak Kiu	Inspected by	Li Wai Cheung	Approved by	Wong Wai Man Vivien	Report Date	20151001

2. Sample Test Method

①Method of concentration determination:■Qubit Fluorometer、□NanoDrop、□Microplate Reader
②Method of sample integrity test:■Agarose Gel Electrophoresis

3. Sample Test Result

No.	Sample Name	Sample Number	Tube No.	Concentration(ng/μL)	Volume(μL)	Total Mass(μg)	sample Integrity	Library type	Test result	Remark
1	gDNA O. lurida	8521509003288	1	82.4	479	39.47	Degraded slightly	10K Mate Pair	Level C	The sample is degraded slightly, The concentration of the sample is too lower, proposed to resend the sample.
2	gDNA O. lurida	8521509003288	1	82.4	479	39.47	Degraded slightly	2K Mate Pair	Level C	The sample is degraded slightly, The concentration of the sample is too lower, proposed to resend the sample.
3	gDNA O. lurida	8521509003288	1	82.4	479	39.47	Degraded slightly	5k/6K Mate Pair	Level C	The sample is degraded slightly, The concentration of the sample is too lower, proposed to resend the sample.

Note*:

1. The test result based on the 《DNA sequencing sample quality standards》 explains whether the testing sample meets the requirement of library construction.
a) Level A means the sample is qualified, and the amount of sample is sufficient for two or more library constructions.
b) Level B means the sample is qualified, but the amount of sample only satisfies one time library construction.
c) Level C means the sample does not totally meet the requirements of library construction and sequencing. BGI can try to construct the library but the quality of the sequence is not guaranteed
d) Level D means the sample does not meet the requirements of library construction and sequencing. BGI does not suggest in using this sample.
2. According to BGI's data, samples of level A and level B are qulified for library construction.
3. According to BGI's data, the risks of library construction for sample of level C or level D are listed below:
a) The deficiency of the quantity: There may be the risk of failure in library construction and the yield of library of experiment may be too low to sequencing,.and the database of low yield for sequencing may lead to poor randomness.
b) Degradation of sample: It may cause high duplication rate of library and insert fragment will be abnormal."
c) Protein contamination: It maybe effect the result of the 20-40K library purification and reduce all kinds of enzyme reaction's efficiency.
d) RNA contamination: It possibly effects the DNA concentration quantitative accuracy.
4. If the partner insists on using the sample of level C or level D, the risk and responsibility is taken by the cooperative partner.

5. Other notes:

a) Sample was contaminated by RNA, RNase A treatment is recommended.

4. Appendix

Appendix 1: Test results of Qubit Fluorometer or Microplate Reader
Appendix 2: Test results of Agarose Gel Electrophoresis
Appendix 3: Original information of sample

5. Statement

1. The results shown in this report refer only to the sample of the report unless otherwise stated.

2. This test report cannot be copied partly without the prior written permission of the Lab.

Appendix 1: Test results of Qubit Fluorometer or Microplate Reader

1. Pre-treatment

After the sample melted the ice, centrifuged and fully mixed, take appropriate samples for testing.

2.Test Result

Sample Name	Sample Number	Test Instrument	Test Kit	Dilution Ratio(×)	Test Volume (μL)	Test Concentration(ng/μL)	Concentration of original sample(ng/μL)	Remark
gDNA O.lurida	8521509003288	Qubit	DNA BR	1	1	82.4	82.4	
gDNA O.lurida	8521509003288	Qubit	DNA BR	1	1	82.4	82.4	
gDNA O.lurida	8521509003288	Qubit	DNA BR	1	1	82.4	82.4	

Appendix 2: Test results of agarose gel electrophoresis

1. Pre-treatment

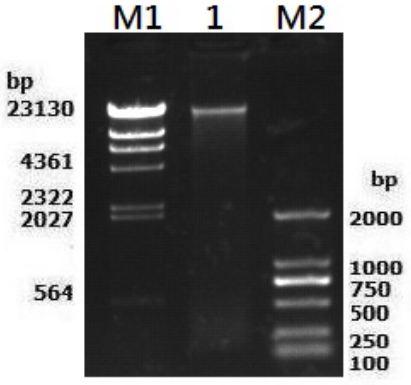
After the sample melted the ice, centrifuged and fully mixed, take appropriate samples for testing.

2. Test Parameter

Concentration of Agarose Gel: 1 %; Voltage: 150 V; Electrophoresis Time: 40 min

3. Test Result

(1)Electrophoretogram:



Lane No.	Sample Name	Dilution Ratio(×)	Test Volume(μL)	Sample Integrity	Remark
M1	λ-Hind III digest(Takara)	1	3		
1	gDNA O.lurida	1	1.21	Degraded slightly	

1	gDNA O.lurida	1	1.21	Degraded slightly	
1	gDNA O.lurida	1	1.21	Degraded slightly	
M2	D2000 (Tiangen)	1	6		

Appendix 3: Original information of sample

Sample Type:									
Genome DNA									
Sample status:									
Dissolved in 10mM Tris-HCl									
Further Information:									
Sample Name	Species	No. of Tubes	Concentration(ng/μL)	Volume(μL)	Total Quantity(μg)	Fragment Size	OD260/280	OD260/230	Remark
gDNA O.lurida	Ostrea lurida	1	172.00	500.00	86		1.86	1.16	
gDNA O.lurida	Ostrea lurida	1	172.00	500.00	86		1.86	1.16	
gDNA O.lurida	Ostrea lurida	1	172.00	500.00	86		1.86	1.16	

Report End