Sample QC Report 3 Fungus mRNA Samples

Report Date: 2021-06-15

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1. Project General Information

Project Name	3 Fungus mRNA Sequencing	
Client	Dr. Ragıp Silme	
Test Date	2021-06-13	

2. QC Methods

Sample Type		□DNA; ■RNA; □smRNA; □Tissue; □Library; □ Others		
Assay Type	Sample Concentration Sample Integrity	□Qubit Fluorometer; □Agarose Gel Electrophoresis; ■Nanodrop; ■Agilent 2100 ■Agilent 5400 ■Agilent 2100; □Agarose Gel Electrophoresis; □Agilent 5400		
	Sample Purity	□Nanodrop; ■Agarose Gel Electrophoresis; ■Agilent 2100 □Agilent 5400		

3. QC Results

3.1.QC Result Summary

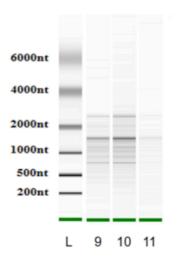
Sample Name	Sample ID	Library	Concentrat ion (ng/μl)	Vol (µl)	Amount (μg) Min≥0.2μ g	RIN Min≥6 .3	Conclusi on	Note
FB-1	FZTR210101584 -1B	Eukaryote mRNA	21	35	0.735	6.6	A	I
FB-2	FZTR210101585 -1B	Eukaryote mRNA	17	35	0.595	6.7	A	I
F-1	FZTR210101586 -1B	Eukaryote mRNA	7	35	0.245	3.8	D	RIN Failed

3.2. Agarose Gel Electrophoresis Results

3.2.1.Electrophoresis Condition

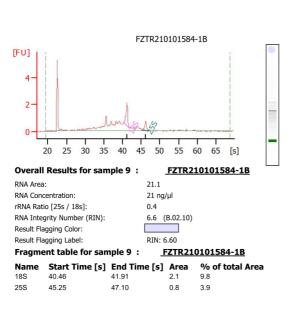
Gel Conc: 1%, Voltage: 180v, Run Time: 16min

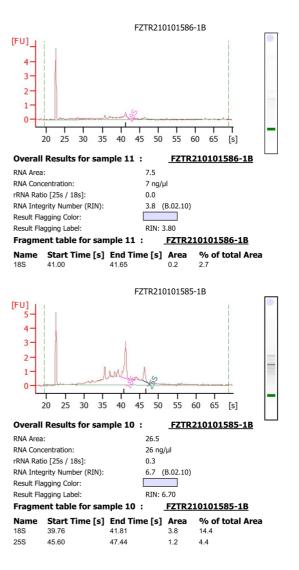
3.2.2.Electrophoresis Results



Ladder from bottom to top: 15nt (green), 200, 500, 1000, 2000, 4000, 6000nt Notes: Sample loaded 1µl each

3.2.3. Agilent 2100 Analysis Results





Notes

The test result is a comprehensive evaluation based on sample quality requirements for library construction and sequencing. The test result based on the "RNA Samples QC Criteria" explains whether the RNA sample meets the requirement of library construction.

a) A: The sample is qualified and the library can be prepared regularly;

- b) C: The sample does not totally meet the requirements of library construction and sequencing. We can try to construct library but the sequencing quality is not guaranteed.
- c) D: It is highly recommended that the client resend the sample or the library could be constructed at high risk and the sequencing quality is not guaranteed (not recommended).

RNA Samples QC Criteria

Sequencing Type	Remarks	Amount (Qubit)	RIN	Volume	Concentration	Purity
Eukaryotic RNA-seq	Strongly Recommended*	≥2 µg	≥6.8 (Animals)	≥20 μL	≥50ng/µL	No degradation or DNA
	Required*	≥1 µg	≥6.3 (Plants/Fungal)	220 μL		
Prokaryotic RNA-seq	Strongly Recommended	≥6 µg	≥6.0	≥20 μL	≥50ng/µL	
	Required	≥3 µg	20.0			
Eukaryotic Long	Strongly Recommended	≥4 µg	≥6.8 (Animals)	≥ 20 μL	≥50ng/µL	
non-coding RNA-Seq	Required	≥2 µg	≥6.3 (Plants/Fungal)	≥20 μL		
Small RNA-Seq	Strongly Recommended	≥6 µg	≥7.5(Animals)	≥ 20 μL	≥50ng/µL	
	Required	≥3 µg	≥7 (Plants/Fungal)			

Note:

1. Strongly Recommended*: In case of unforeseen circumstances (lib prep failure, low quality, low amount, etc), double sample amount is highly recommended to avoid re-sending of samples.

2. Required*: Sample amount required for one time library preparation

3. Sample amount required is based on Qubit. If client uses Nanodrop, the figure is expected to be times difference and this is normal due to the different working principle.