

09-13-2018.

objective: run SQK-RAD004 kit for WBDC355

Material: WBDC355 size selected high weight molecular DNA with concentration of 115.37 ng/μl.
size above 48.5 kb.

Methods: step 1: prepare Rapid library.

0.2 ml thin-walled PCR tube

mixing:

$$\begin{array}{r} \cancel{115.37 \text{ ng/μl}} \\ 4000 \text{ ng} \end{array} \begin{array}{r} \text{TemplateDNA} \\ \hline \text{FPA} \end{array} \begin{array}{r} 7.5 \mu\text{l} \\ 2.5 \mu\text{l} \end{array} \begin{array}{r} = 865.275 \text{ ng} \\ \hline \text{Total} \end{array} \begin{array}{r} 10 \mu\text{l} \end{array}$$

30°C 1 hr, then 80°C 1 hr → put on ice to cool down

step 2: adapter

add 1 μl RAP

mixing, spin down

incubate for 10 min at room temperature
15 min

step 3: add 30 μl FLT → FLB → mixing then

Load 800 μl FLT + FLB to flow cell via

mixing mix

wait for 5 mins

step 4: prepare library

SQ B 34 ed

LB 25.5 ed

ddH₂O 4.5 ed

DNA library 11 ed

75 ed

steps: load 200ed FCT + FCB. wear mask

75 ed SPOTON

2019-04-03. run Morex-sample2 for nanopore
using updated version of flow cell.

1. Material:

Morex-sample2 size selected HwM DNA with conc. of 58.93ng/ μ l
size abv 48.5kb.
FL0-M2M07 MN 2570 - FAK 21566.

2. method:

① Platform & hardware QC.

1303 live pores.

② Rapid Library:

0.2 ml thin-walled PCR tube

Mixing TE1 DNA 58.9 ng/ μ l 6.8 μ l ✓

FRA 2.5 μ l ✓

add H₂O 0.7 μ l ✓

30°C 1 min, then 80°C 1 min → put on ice to cool down ✓

③ adapter

add 1 μ L RAP ✓

mixing spin down ✓

incubate for 15 min at room temperature ✓

④ add 30 μ L FLT + FLB → mixing them ✓

Load 800 μ l FLT + FLB mixing to flow cell via priming mix ✓

wait for 5 mins.

⑤ prepare library

SQB	34 ul ✓
LB	28.5 ul ✓
ddH ₂ O	4.5 ul ✓
DNA library	11 ul
	75 ul

⑥ ~~stop~~ load 200 ul FLT + FLB via pring
75ul library via SPOT on.

2019-04-15 run Morex-Sample 2 for Nanopore
using upgrade version of flow cell (turn off the
base calling) using the third shippable Minion.

1. material:

Morex-sample 2 size-selected HwM DNA with
cons. of 58.93 ng/μl, size abv 48.5kb

2. method:

① platform & hardware QC

② rapid library:

0.2ml thin-walled PCR-tube

Mixing:

TempDNA 58.9 ng/μl

FRA

ddH₂O

6.8 ed ✓

2.5 ed ✓

0.7 ed

30°C 1 min, then 80°C 1 min → put in ice to
cool down ✓

③ adapter:

add 1 μl RAP

mixing spin down

incubate for 15 min at room temperature



④ add 30 μl FLT to FLB → mixing them

Load 800 μl FLT + FLB mixing to flow cell

via priming w/w wait for 5 mins. ✓



⑤ prepare library

SQB	34 ed ✓
LB	25-5 ed ✓
dd H ₂ O	4.5 ed ✓
DNA lib	11 ed ✓
75 ed	

⑥ load 200 ul FLT + FLB via priming

75 ed lib via SPOT ON

close ~~the~~ spot on first

then priming.

NOT check tel basecall.

2019-04-19 run WBDC355 for nanopore using upgrade
version of flow cell (turn off the base calling) using the
third shipped MINION.

1. Material:

WBDC355 size selected H uM DNA with cons of 42.63 ng/l
S:20 abvE 48.5 kb.

2. Method:

① platform & hardware QC

1399 pMCS

② Rapid library

0.2 ml two-walled PCR tube

Mixing: $\rightarrow 39.725 \mu\text{g}$

TeuDNA 42.63 ng/l 7.5 ml ✓

FRA 2.5 ml ✓

~~ddH₂O~~

30°C 1 min then 80°C 1 min \rightarrow put on ice to
cool down ✓

③ adapter:

add 1 ml RAP ✓

mixing spin down

incubate for 13 mins at room Temp.

④ add 30 ml FLT to FLB \rightarrow mixing them ✓

Load 800 ml FLT + FLB mixing to flow cell

Via priming mix waiting 5 mins.

⑤ prepare library

SQB	34ul	✓
LB	25.5ul	✓
dd H ₂ O	4.5ul	✓
DNA lib	11ul	
	75ul	✓

⑥ load 200ul FLT+FLB via priming

75ul Lib via spot on

close spot on first

then priming

NOT check the base calling.