DA-c-11

Automated_ gDNA Extraction from FFPE Samples

Protocol

Make several FFPE flakes*1 and place them in a 2 mL tube*2.

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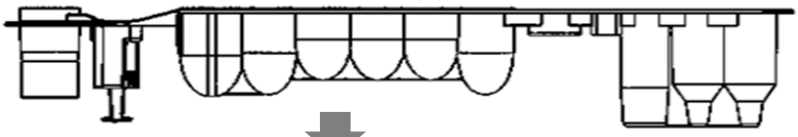
Add 40µl of EDT*3 into well (A) of reagent strips.

(A)



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Add 5 drops (approx. 300µL) of Deparaffinization Reagent (DDF) to the sample.

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Voltex (Max speed): 15 sec.

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Flash spin down*4

↓

Set into the device

Protocol: DNA FFPE

(Elution volume : 100 µl*5)

*Please refer to Quick Start Guide or manual to know the way to set the sample tube.

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1. Add 270µL MDF (including EDF)
2. Mixing
3. Incubation at 65℃ for 30min.
4. Incubation at 90℃ for 45min.
5. Transfer low layer of sample, and mix with 230µL of LDF
6. Mixing
7. Mix with 240µL of ethanol (>99%)
8. Mixing (Lysate completed)
9. Apply lysate into cartridge
10. Pressurizing
11. Washing 3 times with Wash Buffer (WDF)
12. Add elution buffer (CDF) and collect genomic DNA to collection tube

↓

gDNA

*1
Available sample volume
5µm thick…1~10 slices
10µm thick…1~5 slices
Surface area: max. 250mm^2

*2
Recommended microtube
#BM4020
(BM instrument co., Ltd)
#72.695.700 (SARSTEDT)
#72.695.500S (SARSTEDT)

*3
Use a micro pipettor to pierce the aluminum packaging with the tip and fill the reagent

*4
Spin down with 12,000 rpm

*5 Recommended elution volume is 100µl

Depending on sample and storage conditions, nucleic acid may not be extractable.
Therefore, we cannot guarantee accurate data.
The extracted nucleic acid contains unintended acid (ex: when extracting DNA, RNA is also extracted).

Result

Genomic DNA was extracted from FFPE samples (10μm thick, 3 slices) of fetal mouse (18.5days) by using QuickGene-Auto12S

Yield of gDNA (Qubit)

Sample		#1	#2	#3
Yield (μg)	QuickGene	16.7	13.8	13.0
	KIT A	11.8	11.2	8.0

Protein Contamination：A260/280

Sample		#1	#2	#3
A260/280	QuickGene	1.97	1.98	1.98
	KIT A	2.01	2.02	2.01

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