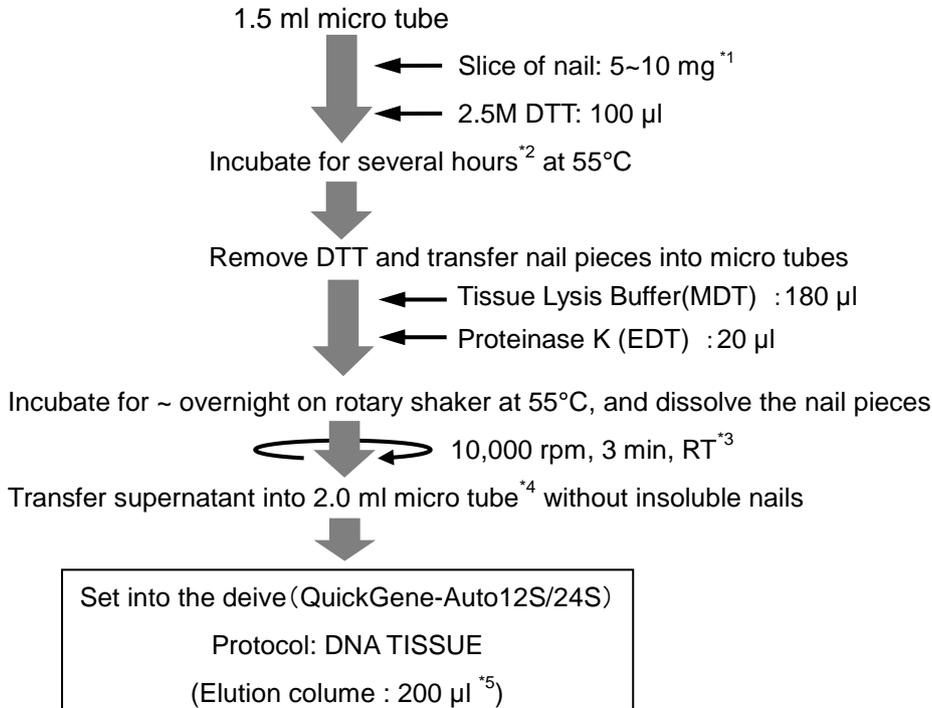


DA-c-7

Automated Genomic DNA Extraction from Nail

Protocol



*Please refer to Quick Start Guide or operation manual to know how to set sample tube.

1. Pre-heating for 3 min
2. Add 180 µl of Lysis Buffer (LDT)
3. Mix by pipetting
4. Incubation at 60°C for 5 min
5. Transfer the lysate and mix with 240 µl of Ethanol(>99%).
6. Mix by pipetting
7. Apply the lysate into the cartridge
8. Pressurizing
9. Wash 3 times by Wash Buffer (WDT)
10. Add selected volume of Elution buffer and elute genomic DNA into collection tube.

Genomic DNA

*1 Wash 5~10 mg of nails with 100% Ethanol. Then wash it with purified water and cut into small pieces.

*2 Continue till the nail color turn to be clear. Generally, it turn to be clear for 3~6 hours.

*3 Remove insoluble portions by centrifugation.

*4 Following micro tube are recommended.
 #BM4020
 (BM instrument co., ltd)
 #72.695.700,
 #72.695.500S
 (SARSTEDT)

*5 The volume of CDT can be reduced to 50 µl, but in that case, elution efficiency might be decreased.

Results

The yield of genomic DNA

Sample ID	#1	#2	#3	#4	#5	#6
Retention period of sample	10 years	9 years	8 years	9 years	3 years	3 years
Yield (µg)	0.34	1.98	1.86	0.44	2.74	3.26

Protein contamination: A260/280

SampleID	#1	#2	#3	#4	#5	#6
A260/280	1.54	1.83	1.63	1.72	1.94	1.79

Common protocol is usable for the following
