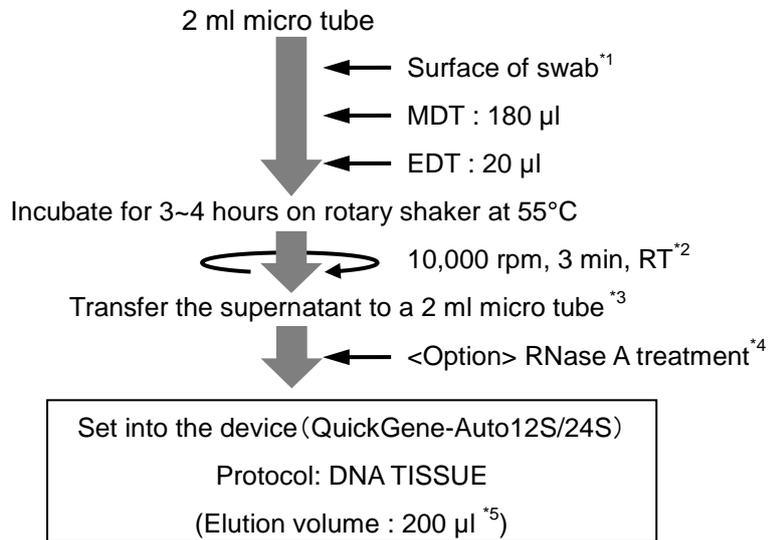


DA-b-10

Automated Genomic DNA extraction from buccal swab

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 μ l of Lysis Buffer (LDT)
3. Mix by pipetting
4. Incubation at 60°C for 5 min
5. Transfer the lysate and mix with 240 μ l 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 Collect oral mucosa with a cotton swab, then dry up and store. Before DNA isolation, Remove half of the surface of the cotton ball with a scalpel.

*2 Remove unlysed portions by centrifugation.

*3 Following microtube are recommended.
 #BM4020 (BM instrument co., ltd)
 #72.695.700,
 #72.695.500S (SARSTEDT)

4 Optional steps
 RNaseA : 20 μ l
 Tap the tube to mix the solution.
 Flash spin down.
 Set it down at room temperature for 2 min.

*5 The default volume of CDT is 200 μ l. The volume of CDT can be reduced to 50 μ l, but in that case, elution efficiency might be decreased.

Results

The yield of genomic DNA

Sample ID	#1	#2	#3	#4	#5	#6
Yield (μg)	0.50	0.50	0.52	1.02	0.36	3.09

Protein contamination: A260/280

Sample ID	#1	#2	#3	#4	#5	#6
A260/280	1.87	1.94	1.97	1.90	1.59	1.97

Common protocol is usable for the following
