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10 Minute DNA Release Kit -4

(10 minutes Urine DNA Kit)

Description

1. This kit was designed to obtain DNA from Urine, 1 ml, within 10 Minutes. It is easily and quickly to have the 40-45ul ready DNA extract for PCR.
2. If you want to have more DNA for PCR, please follow the kit Work Table to increase the sample and the buffer, for example; Urine, 10 ml; Kit4-B3, 1 ml, Kit4-B1, 250ul; Kit4-B2, 250ul; to make total DNA extract 400-450ul.

Catalog Number	DNA Release Buffer		Samples	Storage & Use	Price/kit
	Name	Volume			
JZ-004	Kit4-B1	2.5ml	100	At 5-29˚ C. Works well for one year more from the open day	$ 49.90
	Kit4-B2	2.5ml			
	Kit4-B3	10 ml			

Tools

- Thermo-machine or water bath which can be set for a constant temperature between 90˚ - 95˚ C;
- Centrifuge with 10,000 – 13,000rpm setting up at room temperature;
- 1.5-1.7ml eppendorf tubes, tips, and micro pipette for 10-1000ul scalar;
- Vortex or mixture machine is optional.

Work Table

Step	Action	Example
	Collection of Urine Deposit	
Step #1	• Ready 1ml of urine in an eppendorf tube. • Add 100ul of Kit4-B3 to the tube(Kit4-B3: Samples=1:10)	
Step #2	• Invert the tube for 4-6 times or Vortex it for 3-6 seconds. • Centrifuge the tube at 12,000rpm for 1 min. at room temperature (RT). • The urine deposits at the bottom of the tube (see example).	
Step #3	• Pour or/and Remove supernatant using a micro-pipette. • The urine deposits have been ready for DNA release.	
	Release of DNA	
Step #5	• Add 25ul of Kit4-B1 to the tube containing urine deposit. • Vortex it for 6-8 seconds or flick it 4-6 times, or to be mixed with pipette. • Put the tube in a thermo-machine or a water bath at 86˚-90˚ C for 7-8 min (no shaking).	
Step #6	• Remove the tube from the thermo-machine to RT and flick the tube 3-5 times • Add 25ul of Kit4-B2 to the tube. • Flick the tube 3-5times again • Centrifuge it at 12.000rpm for 2 min. at RT; • Transfer 40-45ul clear aqueous phase into a clean tube, that is ready DNA extract for PCR, To be in 4˚ C for a few weeks, in -20˚ C for longer using. • Use 1ul (-3ul) of DNA extract to run PCR in 20-25ul reaction volume.	

Notes:

- If you are the first using this kit , please to know how many DNA work well by testing 20-25 PCR reaction volume with the DNA extract 1,2and 3ul respectively.

Reference:

1. Zhu, HJ et al: Ten Minute DNA Kits – A Novel Approach to Obtain DNA Easily in Modern Biological Science. Nature and Science 4(2): 58-70, 2006.
2. Lee TY et al.; Phylogenetic analysis by RFLP and sequencing of mitochondrial DNA in a Korean Popukation. Arch Oharm Res.,2006 Jan; 29(1) :88-95.