

10 Minute DNA Release Kit -5 (10 Minutes Saliva DNA kit)

Description


This kit was designed to obtain the DNA from Saliva within 10 minute. It is easily and Quickly to have the Saliva DNA ready for PCR, and also to be used on the DNA Methylation, Gene Chip and DNA Arrays etc.

Catalog Number	DNA Release Buffer		Working for	Storage & Using	Order Price
JZ-005	Name	Volume	100 samples	1. 5-29°C, Works well for one year from the open day. 2. Dilute the 10x Kit5-B1, 10ml with D.W.90ml to become the 1x Kit5-B1, 100ml working solution. That works well for one year from the making day, and store at 5-29°C too.	\$79.76/Kit
	Kit5-B1	10x, 10ml			
	Kit5-B2	1x, 6ml			
	Kit5-B3	1x, 0.5ml			

Tools

- Thermo-machine or water bath which can be set for a constant temperature between 90° - 95° C;
- Centrifuge with 10,000 – 15,000g set up at room temperature(RT);
- 1.5ml eppendorf tubes, tips, and micro (10-200ul scalar) pipette;
- Vortex or mixture machine is optional;

Work Table

Step	Action	Example
Saliva lysis		
1	<ul style="list-style-type: none"> • Ready the saliva 100ul in an eppendorf tube. • Add 1x Kit5-B1, 1ml to the tube and to be mixed completely by pipette Or vortex. 6-8 seconds • Centrifuge it at 12,000rpm in RT for 2- 3min. 	
2	<ul style="list-style-type: none"> • See the lysised Saliva to be deposit in bottom of the tube (see example). • Pour the supernatant and keep the deposit in bottom of the tube. 	
DNA Release		
3	<ul style="list-style-type: none"> • Add 60ul of Kit5-B2 to the tube containing the lysised saliva deposit; • Flick it 6-8 times till it looks suspending completely; 	
4	<ul style="list-style-type: none"> • Place the tube in a thermo-machine or a water bath at 90°-95° C for 8-10 minutes (no shaking); • Remove the tube to be in RT and flick the tube 4-6 times; 	
5	<ul style="list-style-type: none"> • Add 5ul of Kit5-B3 to the tube; • flick the tube 4-6 times again; • Centrifuge it at 12,000rpm in RT for 1 min. 	
6	<ul style="list-style-type: none"> • Transfer 55-60ul of the clear aqueous phase, which is the desired DNA extract, into a clean tube. To be used now or at 4 ° C for a few weeks and /or at -20 ° C for a few years. • Take 1-3ul DNA extract to be in 20-25ul PCR reaction volume. 	
Note	<ul style="list-style-type: none"> • Using the kit for the first time, determine the best working range of the extract by running PCR with different quantities of 1ul, 2ul, and 3ul of DNA. • Or the DNA concentration is measured for DNA Methylation, Gene Chip, DNA Arrays etc. • Unusually you could have 55-60ul DNA extract, 0.2-0.35ug/up, the ratio would be 1.6--1.85 on 260/280nm; 	

- 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 Population. Arch Oharm Res.,2006 Jan; 29(1) :88-95.
 3. Ren S et al. ;A Simplified Method to Prepare PCR Template DNA for Screening of Transgenic and knockout Mice. Contemp Top Lab Anim Sci.2001: 40(2): 27-30.