Blood Genomic DNA Extraction Kit

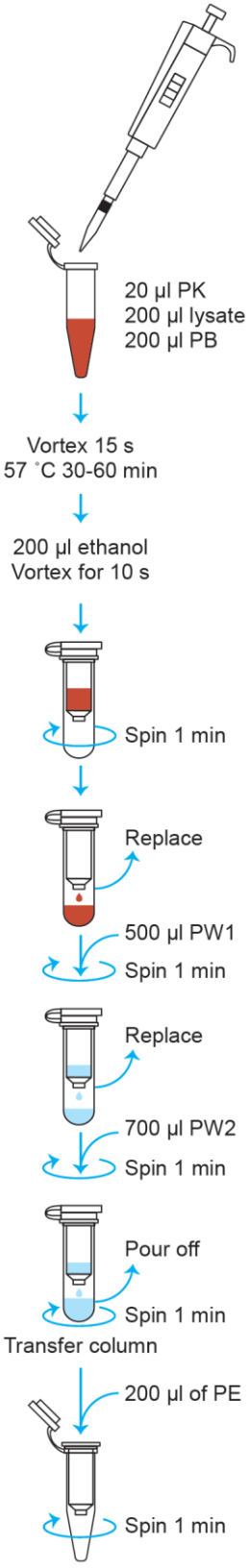
Catalog Number: NP041012010

Kit Contents:

Components	50 reactions
PB (Blood Binding Buffer)	12 ml
PW1 (Wash Buffer)	15 ml
PW2 (Wash Buffer	12 ml
PE (Elution Buffer)	12 ml
PK (PK Storage Buffer)	1 ml
Proteinase k	20 mg
Spin Column	50 pcs
Collection Tube	2 x 50 pcs

Before Starting

1. Add 10 ml of absolute ethanol to the PW1 (only at the first use).
2. Add 48 ml of absolute ethanol to the PW2 (only at the first use).
3. Add Proteinase K (PK) solution to the lyophilized powder of proteinase K and store at -20 ˚C until usage (only at the first use).
4. Check PW1 and PB for salt precipitation. Redissolve any precipitation at 50 ˚C.
5. Preheat the solution of PE to 56 ˚C before starting the extraction process to enhance DNA extraction yield.



Protocol:

1. Add 20 µl of proteinase K, 200 µl of blood and finally 200 µl of PB into a 1.5 ml micro tube.
2. Mix them well by vortexing (15 s) and incubate at 57 ˚C for 30 min.
3. Add 200 µl of absolute ethanol and mix it by vortexing (10 s).
4. After a quick spin, carefully transfer lysate to the spin column. Do not touch upper rim of column. Spin for 1 min at 13.000 rpm. If you see blood on the column, repeat the spin for 1min.
5. Replace the collection tube with a new one.
6. Add 500 µl of PW1 and spin for 1min at 13.000 rpm.
7. Replace the collection tube with a new one.
8. Add 700 µl of PW2 and spin for 1 min at 13.000 rpm.
9. Pour off the flow-through of collection tube.
10. Repeat step 8 and 9 with 500 µl of PW2 (optional)
11. Spin for 1 min at 13.000 rpm to remove the remaining of the wash buffer. Transfer the spin column to a new 1.5 ml micro tube.
12. Add 200 µl of preheated PE, wait 3min at room temperature or 57 ˚C (If you didn't warm PE). If you want more concentration add less PE (100 µl).
13. Spin for 1 min at 13.000 rpm to elute DNA from the column. Store DNA solution at -20 ˚C.